

INDEX OF:

MINING ENGINEERING LITERATURE

COMPRISING AN

INDEX OF MINING, METALLURGICAL, CIVIL, MECHANICAL,
ELECTRICAL AND CHEMICAL ENGINEERING
SUBJECTS AS RELATED TO MINING
ENGINEERING

BY

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PREFACE

The present volume, known as an Index of Mining Engineering Literature, will be found useful for all engineering professions, but especially to mining and metallurgical engineers and educators. It consists of a complete and carefully made index of eighteen engineering publications: journals, transactions and proceedings of societies, etc., which have in large part been cross-referenced, thus rendering valuable assistance to the reader in acquiring information not given in a general index, and which would not otherwise be accessible except through much tedious and painstaking research and extensive reading.

The work has grown out of the personal needs of the author in both educational and professional work. From a small number of selected references it has grown to such an extent, and has proven of such practical value that it was deemed advisable to publish it and thus place it within reach of members of the engineering professions. represents the unaided labor of the author for a period of about five years, during which time he was actively engaged with other duties. Any errors that may occur are, therefore, due to his oversight and are not chargeable to others. The method of writing the references has changed from time to time as a result of experience in the work, and the use to which they have been put, which will explain why certain information is given in one instance and not in another. At the beginning of the work, the number of pages or columns, also the illustrations, were not considered of importance, and consequently were not given, and similarly with other minor points. will occasionally occur that the page as given will not be exact, which is due in large part to calculating backward, hastily, after ascertaining the number of pages or columns in the article, and in a similar manner the length may have been miscalculated by a page, column or a fraction of either. The author will consider it a favor if his attention is called to errors, in order that they may be corrected.

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ABBREVIATIONS

Am. Jour. Min. — American Journal of Mining.

Ann. Min Rept. N. S. Wales. — Annual Mining Report New South Wales.

Cal. Miners' Assoc. Annl. — California Miners' Association Annual.

Coll. Engr — Colliery Engineer

Coll. Engr & Met. Miner. — Colliery Engineer and Metal Miner.

Coll. Working and Management. — Colliery Working and Management.

Coll. Guard. — Colliery Guardian. Columbia Eng. — Columbia Engineer.

E. & M. J. — Engineering and Mining Journal.

Eng. News. — Engineering News.

Eng. Cont. — Engineering-Contracting. Eng. Mag. — Engineering Magazine

Gold Min. & Mill. W. Aus — Gold Mining & Milling in Western Australia.

J. C. M. I. — Journal Canadian Mining Institute.

J. C. M. Rev. — Journal Canadian Mining Review

J. C. & M Soc. S. A. — Journal Chemical and Metallurgical Society of South Africa.

J. W. Soc. E. — Journal Western Society of Engineers

J. M. Soc. N. S — Journal Mining Society of Nova Scotia.

Min. Mag. — Mining Magazine.

M. & M. — Mines and Minerals.

Min. & Sci. Press. — Mining and Scientific Press.

Mech. Eng. Coll. — Mechanical Engineering of Collieries.

P. C. M. & M. Soc. S. A. — Proceedings Chemical Mining and Metallurgical Society of South Africa.

P. E. Soc. W. Pa. — Proceedings Engineering Society of Western Pennsylvania.

P. C. M. — Practical Coal Mining.

P. I. C. E. — Proceedings Institute of Civil Engineers

Rept. Inspr. Mines Pa. — Report Inspector of Mines of Pennsylvania.

Rept. Zinc Comm. Canada. — Report Zinc Commission of Canada.

R. R. Construction. — Railroad Construction Sch. Mines Quart. — School of Mines Quarterly

Soc. P. E. E. — Society for the Promotion of Engineering Education.

Sci. Am Supp. — Scientific American Supplement. T. L. S. M. I. — Transactions Lake Superior Mining Institute.

T. I. M. E. — Transactions Institute of Mining Engineers.

T. A. I. M. E. — Transactions American Institute of Mining Engineers.
T. F. I. M. E. — Transactions Federated Institute of Mining Engineers.
T. I. M. & M. — Transactions Institution of Mining and Metallurgy.

T. N. S. I. M. & M. E. — Transactions North Staffordshire Institute of Mining and Mechanical Engineers.

T. F. C. M I. — Transactions Federated Canadian Mining Institutes.

T. A. S. M. E. — Transactions American Society Mechanical Engineers.

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Determination of Bismuth, Molybdenum, Mercury, Tellurium, Wolfram, etc.

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Acid Manufacture

- THE MANUFACTURE OF PURE NITRIC ACID. E. & M. J, vol. 55, p. 83 1 column. I.
- NEW SPECIFIC GRAVITY TABLES FOR HYDROCHLORIC AND NITRIC ACID. By G. Lunge. E & M. J., vol. 51, p 558. 4 columns I.
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- THE VOLUMETRIC DETERMINATION OF SULPHUR AND AMMONIA IN ILLUMINATING GAS. By H. E. Saddler and B. Silliman. T. A. I. M. E., vol. 5, p. 387.
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- NOTE ON A FORM OF SILVER OBTAINED IN THE REDUCTION OF THE SULPHIDE BY HYDROGEN. By F. (Phillips. P E. Soc. W. Pa., vol. 10, p. 130. 2½ pages.
- METHOD OF ANALYSIS OF GOLD-SILVER BULLION. By J. E. Clennell E & M. J., vol. 83, p. 1099. 5½ columns.
- CHEMICAL NOTES ON GOLD MILLING. By R. N. Clark. P. E. Soc. W. Pa., vol. 10, p. 71. 12 pages.
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- QUANTITATIVE DETERMINATION OF VERY SMALL QUANTITIES OF SILVER. E. & M J, vol 38, p 195 1 column.
- THE CONDITION OF SILVER IN A SAMPLE OF LITHARGE By C E Wait. T. A I M E, vol. 15, p. 463.
- ELECTROLYTIC ANALYSIS OF GOLD E. & M J, vol 77, p. 553 } column

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- PHOSPHORUS IN THE ASHES OF ANTHRACITE COALS. By J. B. Britton T A. I. M E, vol 1, p. 298
- THE DETERMINATION OF PHOSPHORUS IN COAL AND COKE. By J Lychenheim T A. I. M E., vol. 24, p. 66 and p. 862
- A RAPID METHOD FOR THE DETERMINATION OF PHOSPHORUS By F. A. Emmerton. T. Λ. I. M. E, vol. 15, p. 93.
- THE DETERMINATION OF PHOSPHORUS By J Westesson. T. A. I. M. E, vol 13, p 405.
- Notes on Emmerton's Method of the Determination of Phosphorus. By H C. Babbitt. T. A. I. M E., vol. 21, p 794.
- THE EXACT DETERMINATION OF PHOSPHORUS BY A MOLYBDATE METHOD IN IRON, STEEL AND ORES WHICH CONTAIN ARSENIC. By J. O. Handy. P. E Soc. W. Pa., vol. 9, p. 377. 5 pages.

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- THE ANALYSIS OF IRON ORES CONTAINING BOTH PHOSPHORIC AND TITANIC ACIDS. By T M. Drown and P. W. Shimer. E. & M. J, vol. 32, p. 353. 2½ columns.
- A RAPID METHOD FOR THE DETERMINATION OF PHOSPHORUS IN CERTAIN ORES. By T. Reed Woodbridge. T. A. I. M. E., vol. 17, p. 750.
- PHOSPHATE CHEMISTRY AS IT CONCERNS THE MINER. By T. C. Chatard. T. A. I. M. E., vol. 21, p. 160.
- Note on the Determination of Phosphorus in Iron. By F. E. Bachman and F. Julian. T A I. M E., vol 10, p. 322, vol 12, p. 518.
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- Insoluble Phosphorus in Iron Ores.

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- THE DETERMINATION OF LEAD IN ALLOYS. By W. E. Garrigues. P. E. Soc. W. Pa., vol. 14, p. 80. 3 pages.
- EXPERIENCE WITH VON SCHULZ AND LOW'S METHOD FOR LEAD ESTIMATION IN ORES. P. E Soc. W. Pa., vol. 8, p. 120. 6 pages.
- DETERMINATION OF LEAD IN GALENA. Min. & Sci. Press, vol. 82, p. 132. Note.
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- THE ACTION OF SULPHURIC AND NITRIC ACID ON LEAD OF DIFFERENT DEGREES OF PURITY. By G. Lunge. E. & M. J., vol. 55, p. 8, 3 columns; p. 32, 1\frac{1}{3} columns; p. 56, 2\frac{1}{2} columns.
- DETERMINATION OF LEAD IN ORES. Sch Mines Quart, vol 25, p 177. 6 pages.

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- Titration of Zinc in Alkaline Solution. By E. B Van Osdel. E & M. J., vol. 84, p. 730. 2½ columns
- THE FERROCYANIDE METHOD FOR THE DETERMINATION OF ZINC. E & M J, vol. 83, p 850. 1½ columns.
- DETECTION OF WILLEMITE BY PHOS-PHORESCENCE By E K Judd E. & M. J, vol. 83, p. 803. 1½ columns
- ZINC ORE ANALYSIS E & M. J, vol 84, p 297 1 column.
- THE SEPARATION OF IRON FROM ZINC BY AMMONIA BY K. Pietrusky Min & Sci. Press, vol. 92, p. 74. 2 columns
- TECHNICAL ESTIMATION OF ZINC BY C. E. Rueger M & M., vol. 27, p. 157 2½ columns.
- A New Method of Determining Zinc By A C Langmuir. Min. & Sci. Press, vol 78, p. 345. 1½ columns.
- Manufacture of Zinc Pigments. By E W Buskett M & M, vol 28, p. 193. 2½ columns I
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- Volumetric Determination of Zinc. E. & M. J., vol. 78, p. 135. 2 columns.
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- Analysis of Franklinite and Some Associated Minerals. By Geo. C. Stone. Sch. Mines Quart., vol. 8, p. 148. 4 pages.
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Chemical Analysis in Cyaniding

- ANALYTICAL WORK IN CONNECTION WITH THE CYANIDE PROCESS. By J E. Clennell. T I M & M., vol 12, p. 367. 25 pages.
- Notes on the Estimation of Sulphides in Cyanides. By J. Loevy. P. C. & M. Soc. S. A, vol. 2, p. 608. 31 pages
- Notes on the Analysis of Cyanide Solutions. By A. F. Crosse. P. C. & M. Soc. S. A., vol. 3, p. 1. 13 pages.
- ESTIMATION OF THE CHIEF CONSTITUENTS IN CYANIDE SOLUTIONS. By J E. Clennell. E. & M. J, vol. 79, p. 1230. 5\frac{3}{2} columns.
- THE COLORIMETRIC ESTIMATION OF GOLD IN CYANIDE SOLUTIONS. By H. R. Cassel. E. & M. J., vol. 76, p 661 2 columns.
- DETERMINATION OF GOLD AND SILVER IN CYANIDE SOLUTIONS. E. & M. J., vol. 76, p. 844. ½ column.

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- AN EXAMINATION OF THE VARIOUS METHODS FOR THE ESTIMATION OF FERROCYANIDES. By J. E. Clennell. E. & M. J., vol. 76, p. 698. 9½ columns.
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- THE TITRATION, USE AND PRECIPITATION OF CYANIDE SOLUTIONS CONTAINING COPPER. By W. H. Virgoe
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- A METHOD OF TESTING CYANIDE SOLU-TIONS CONTAINING ZINC. By I. M Green T. I. M & M, vol. 10, p. 29. 12 pages
- DECOMPOSITION OF AURIC CHLORIDE By C. Vautin T I. M & M., vols 1 and 2, p. 273.
- ESTIMATION OF CYANIDE. By A. Adair E & M J, vol 75, p. 563. 1 column.
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- A RAPID METHOD OF DETERMINING ARSENIC IN ARSENOPYRITE. By J. L. Danziger and W. H. Buckhout. Sch. Mines Quart., vol. 24, p. 400. 5 pages.
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- DETERMINATION OF ARSENIC IN STEEL, AND IRON AND IRON ORES. By J E Stead. E. & M J, vol. 59, p 608 1 column.

Determination of Cobalt, Nickel, Tungsten and Tin

- A RAPID METHOD FOR THE DETERMINATION OF NICKEL IN STEEL. By A. T. Eastwick. P E Soc W. Pa., vol. 9, p 170. 2½ pages.
- DETERMINATION OF TUNGSTEN IN STEEL. By P Kemery. P E. Soc. W Pa, vol 9, p 173 3 pages.
- DETERMINATION OF TIN IN TAILINGS AND SLIMES By G L Mackenzie T. I.M. & M, vol 13, p 87 16 pages I.
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- TREATING NICKEL ORES AND ALLOYS.
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- NICKEL ANALYSIS By S H Emmens. E. & M. J., vol. 54, p. 510. 3 columns.

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- THE ANALYSIS OF TIN AND TERNE PLATE. E. & M. J, vol. 54, p. 610 ½ column.
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Coal Analysis

- THE CHEMICAL COMPOSITION OF COAL. By E Lecocq M & M., vol. 20, p. 435 ½ column
- DETERMINATION OF ASH IN COAL. E & M J, vol 78, p. 507. 3 column
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- A New Volumetric Method for Copper and the Ores of Copper. By A. Adair. P. C. & M. & M Soc. S. A, vol. 6, p. 188. 4 columns.
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- ESTIMATION OF COPPER BY POTASSIC ACID. By W. F Brugman E & M. J, vol. 47, p. 459. 1½ columns.
- DETERMINATION AND DETECTION OF COPPER. By M. Haupt E & M. J., vol. 58, p. 511. 1½ columns.
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- THE IODOMETRIC DETERMINATION OF COPPER By A M Fairlie E & M J, vol 78, p 787, 3 columns; p 1023, 2 columns
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- THE COPPER ASSAY BY THE IODIDE METHOD. By A. H. Low. E & M J., vol. 61, p. 446, 1½ columns; and p. 492, 1½ columns.
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- Notes on Iron Ore Analysis. By C T. Mixer. P. E. Soc. W. Pa, vol 12, p 100. 6 pages
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- DETERMINATION OF CARBON IN STEEL BY DIRECT IGNITION WITH RED LEAD By C M. Johnson. P E Soc W Pa, vol. 21, p 586. 15 pages I
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- THE ANALYSIS OF CHROME AND TUNG-STEN STEELS By A G M'Kenna P. E Soc. W. Pa, vol. 16, p. 119 4 pages
- METHOD OF DETERMINING GRAPHITE IN
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- BICHROMATE TITRATION FOR IRON. E. & M. J, vol 83, p 667 ½ column.
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- DETERMINATION OF TUNGSTEN. By F. Cremer E & M J, vol. 59, p. 345. $\frac{3}{4}$ column.
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- Variations in Bilboa Iron Ore E & M. J., vol. 57, p. 439. 1 column.
- METHOD FOR THE DETERMINATION OF IRON IN IRON ORE By Mixer and Dubois E. & M J, vol 57, p. 342 } column.
- Analyses of Lake Superior Iron-Ores By G W Goetz. T. A I. M. E., vol. 19, p. 59.
- Analysis of Iron Ore. Sch. Mines Quart, vol. 25, p. 119. 10 pages
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- ANALYTICAL METHODS FOR IRON BY W A Siebenthal E. & M. J., vol. 80, p. 918. 2 columns.
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- FORMULAS FOR DETERMINING THE VALUE OF IRON ORES. By G Teischgraber. E. & M. J., vol. 62, p. 345. 13 columns.
- A New Method of Determining Carbon in Iron. By E. Volmer E & M J., vol. 62, p. 173. ½ column.
- A RAPID AND PRACTICAL METHOD FOR DETERMINING CARBON IN IRON By J. G Heid E & M. J, vol. 63, p 64. ½ column.
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- On the Solution of Pig Iron and Steel for the Determination of Phosphorus By N H. Muhlenberg. T A. I M. E., vol. 10, p 85
- CHEMICAL METHODS FOR ANALYZING RAIL-STEEL By M. Troilius. T A I. M. E, vol. 10, p. 162.
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- THE DETERMINATION OF CARBON BY MAGNETIC TESTS. By C. M. Ryder. T. A. I. M. E., vol. 5, pp. 381, 386.
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COMPRESSED AIR IN MINING

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- THE REDUCTION OF RAND ORES BY
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Use of Plates in Amalgamation

- Note on Plate-Amalgamation. By A. J. Clark. T. A. I M. E., vol. 29, pp. 459 and 1039, E. & M. J., vol. 68, p. 762. 1½ columns.
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Pan Amalgamation

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 SLUICE-BOXES AND SIDE-RUNS IN THE ALLUVIAL MINES OF OTAGO.
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- SAVING FINE GOLD IN SLUICES Min. & Sci Press, vol 78, p 346 } column.
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- THE ROBINSON RIFFLE: Details of Construction Min & Sci Press, vol 66, p 115, ½ column, I; and p. 161, 1 column, I
- See Amalgamating Apparatus and Amalgamators.

Amalgamating Apparatus (Amalgamators)

ELECTRIC POWER APPLIED TO THE BENNETT AMALGAMATOR E & M. J., vol. 60, p. 585. ½ column. I.

- THE COOK AMALGAMATOR. E. & M. J., vol. 49, p. 708. ½ column. I.
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- MICHEL'S AMALGAMATOR. Min. & Sci. Press, vol. 38, p. 193. 2 columns I
- THE REMFREY SEPARATOR. Min & Sci Press, vol 23, p 9. $\frac{2}{3}$ column.
- JOHNSON'S PATENT BATEA-SEPARATOR AND AMALGAMATOR Min & Sci. Press, vol. 18, p 209 2 columns I
- THE FORSTER-FIRMIN AMALGAMATOR. Min & Sci Press, vol 36, p. 129, 2 columns; and p 137, I
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- THE BUCYRUS AMALGAMATOR. Min. & Sci. Press, vol. 65, p 25 2½ columns. I.
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- KUSTEL AND HOFFMAN'S AMALGA-MATOR Min & Sci Press, vol. 35, p 145 1 column.
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- HUNTINGTON AND KOCH AMALGAMA-TOR Min & Sci Press, vol 51, p 325 2 columns I
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- See Pan Amalgamation for further information on Amalgamators.

The Patio Process of Amalgamation

- THE PATIO PROCESS IN SAN DIMAS, MEXICO By R E Chism. T. A. I. M E., vol. 11, p. 61.
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- DIAGRAMMATIC SCHEME OF PATIO PROCESS. T. A. I. M. E., vol. 11, p. 76. I.
- Notes on the Patio Process. By C. A. Stetefeldt. T. A. I. M. E., vol. 13, p 369.
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- THE ABSORPTION OF SULPHUR BY GOLD AND ITS EFFECTS IN RETARDING AMALGAMATION By W. Skey. E. & M. J., vol. 11, p. 52. $\frac{3}{4}$ column.
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- THE "FLOURING" AND "SICKENING" OF MERCURY By T. A. Rickard E & M. J., vol. 59, p. 460. 11 columns.
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Amalgam Retorts and Other Apparatus

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- RETORTING GOLD AMALGAM Min. & Sci. Press, vol. 53, p. 361 ½ column. I.
- Amalgam Strainers. Min & Sci. Press, vol. 61, p. 49 2 columns. I.
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- COARSE ORE QUICKSILVER FURNACE.

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 1 column I
- IMPROVED AMALGAM TRAP. Min. & Sci. Press, vol. 67, p. 177. ½ column.
- Shaking Amalgamating Plates. E. & M J., vol. 80, p. 265. 💈 column.
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- RETORTING SILVER AMALGAM IN VACUO Min & Sci. Press, vol. 49, p. 229. 3½ columns. I.
- Amalgam Retort and Condenser.

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- Baker's Quicksilver Feeding Machine Min & Sci. Press, vol. 51, p 385 ½ column I
- DU BOIS' AUTOMATIC QUICKSILVER FEEDER FOR GOLD MILLS Min & Sci Press, vol 42, p 349. 1 column. I.
- IMPROVED PROCESS FOR ELEVATING QUICKSILVER IN QUARTZ MILLS. Min & Sci Press, vol 25, p. 81. 7 column I.
- ELEVATION OF QUICKSILVER IN MILLS
 TO AVOID HANDLING AND SCATTERING Min. & Sci Press, vol 25,
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- An Improved Quicksilver Strainer.

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- AMALGAMATING MACHINERY OF THE FRYER PROCESS Min & Sci Press, vol. 32, p 289. 2½ columns I.
- Paul's Patent Amalgam Safe and Mercury Discharger Min & Sci. Press, vol. 32, p 337 \$\frac{3}{2}\$ column I.
- Mackay's Amalgam Press E & M. J, vol 71, p 83 11 columns. I.
- AMALGAMATION TABLE TREATMENT: Liquid for Cleaning Tables, etc, El Callao Mill, Venezuela. T. I. M. & M, vol 9, p 110.
- TESTING GOLD ORES FOR TREATMENT BY CONCENTRATION AND AMALGA-MATION TO DETERMINE THE BEST METHOD. By H. Van F. Furman M. & M, vol. 19, p 481 6 columns I.
- Notes on a Laboratory Amalgamating Device and Comparisons with Actual Mill Results. By H. H. Guess. J. C. M. I., vol. 1, p. 10. 5 pages. I.

Electrostatic Separation

- THE BLAKE-MORSCHER ELECTRICAL ORE SEPARATOR. By A. M. Plumb. Min Mag, vol 11, p. 515. 10 columns I
- ELECTROSTATIC SEPARATION. E. & M. J., vol 80, p 505. 1½ columns. I.
- THE SUTTON-STEELE ELECTROSTATIC MAGNETIC SEPARATOR E. & M. J., vol. 80, p 253 1 column I.
- STATIC ELECTRICITY IN ORE DRESSING By W G Swart E. & M J, vol. 80, p. 351. 1½ columns. I
- ELECTROSTATIC APPARATUS E. & M J. vol. 80, p 218. ½ column I.
- STATIC ELECTRICITY APPLIED TO ORE-DRESSING By W G Swart E & M J, vol 75, p 146 23 columns I
- ELECTROSTATIC CONCENTRATION By L I. Blake E & M J, vol. 79, p. 1036. 6 columns. I.
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- ELECTROSTATIC SEPARATION By J M. McClave M & M., vol. 27, p. 514. 1 column

Magnetic Separation

- THE MAGNETIC PROPERTIES OF IRON AND STEEL AT LIQUID AIR TEMPERATURES By C C Trowbridge. Sch. Mines Quart., vol 24, p 172. 12 columns I.
- INVESTIGATIONS OF MAGNETIC FIELDS, WITH REFERENCE TO ORE-CONCENTRATION By W R Crane T. A. I M E, vol 31, p 405 I.
- MAGNETIC PROPERTIES OF MINERALS. E & M J, vol. 55, p 322
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- THE ELECTRICAL AND MAGNETIC PROP-ERTIES OF THE IRON CARBURETS. By Carl Barus. Sch. Mines Quart., vol. 7, p. 24. 10 pages.

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- An Experimental Determination of Air-Gap Reluctance By C. H. Smoot J W. Soc. E, vol. 10, p. 500 12 pages. I.
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- THE CHASE MAGNETIC ORE-SEPARA-TOR By H S Chase T. A I. M. E., vol 21, p 503.
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- Types of Successful Magnetic Concentrators. J. C. M. I, vol. 6, p 20
- THE WENSTROM MAGNETIC SEPARATOR. By R A Cook. T. A. I. M. E., vol. 17, p. 599.
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 W R Crane M. & M, Dec., 1904,
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- MAGNETIC CONCENTRATION AT TILLY FOSTER. By F H McDowell T. A. I. M. E., vol 21, p. 519
- PRACTICAL RESULTS IN THE MAGNETIC CONCENTRATION OF IRON-ORE By W H. Hoffman. T. A. I. M. E., vol. 20, p. 602.
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- THE WETHERILL SYSTEM OF MAGNETIC CONCENTRATION E & M J, vol. 61, p. 564. 2 columns. I.
- NORTH CAROLINA IRON ORES AND MAGNETIC CONCENTRATION By W. B. Phillips. E. & M. J., vol. 57, p. 490. 1½ columns
- RECENT PRACTICE IN MAGNETIC SEP-ARATION IN SWEDEN BY H C. McNeill. E. & M J, vol 68, pp. 608, 4 columns; and p 640, I.
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- ORE-DRESSING BY ELECTRICITY AT THE TILLY FOSTER MINE By F H. McDowell T A I. M. E., vol. 19, p 71.
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- THE "CROWN" DRY CONCENTRATING SYSTEM E & M. J, vol 71, p. 694 13 columns. I.
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- SILVER MINING AND MILLING AT BUTTE, MONT. By W. P. Blake. T. A. I. M. E., vol. 16, p. 38.
- GOLD PRINCE MINE AND MILL, ANIMAS FORKS, COLO. M. & M., vol. 27, p. 341. 7 columns. I.
- Notes on Gold Milling in California Min. & Sci. Press, vol. 71, p. 320, 1½ columns; p. 336, 3 columns, p. 356, 2 columns; p. 372, 2 columns; p. 389, 1 column; p. 404; 3 columns; p. 424, 2½ columns; vol. 72, p. 4, 3 columns; p. 24, 7 columns; p. 46, 1½ columns; p. 64, 3 columns; p. 108, 1½ columns; p. 64, 3 columns; p. 108, 1½ columns; p. 125, 3 columns; p. 144, 2½ columns; p. 165, 4½ columns; p. 206, 1 column.
- MILLING ARIZONA GOLD-ORES WITH A COLORADO STAMP-MILL By W S. Morse. T A I M E, vol 25, p 130.
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- Notes on Milling at the North Star Mine, Grass Valley, Cal By P R Robert T. I. M. & M., vol 5, p 153

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- MINING AND ORE TREATMENT IN WESTERN AUSTRALIA By D. Clark. Min & Sci Press, vol. 89, p 41, 2½ columns, p 54, 3 columns, I.; p 71, 2 columns, p 89, 2½ columns; and p. 103, 2½ columns, I
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- METHOD OF SAVING FINE GOLD OF SNAKE RIVER, IDAHO By W. H. Washburn Min & Sci Press, vol 83, p. 45 4 columns I.
- THE PEREGRINA MILL, GUANAJUATO By F. J. Hobson E & M. J, vol 81, p. 943 4 columns
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- A CHINESE SYSTEM OF GOLD-MILLING. By H Louis. T. A. I. M E, vol 20, p 324.
- CONCENTRATION AND SMELTING AT TOMBSTONE, ARIZONA. By J A. Church. T. A. I. M. E, vol 15, p. 601.
- SILVER-MILLING IN ARIZONA. By W. L Austin. T. A. I. M. E, vol 11, p 91.
- THE MINES AND MILLS OF GILPIN COUNTY, COLORADO By A N. Rogers. T. A. I. M. E., vol 11, p. 29.

- FINE GOLD MINING AND CONCENTRA-TION. By N. J. Fleck. E. & M. J., vol. 68, p. 70. 1 column.
- MINING AND MILLING GOLD ORES IN WESTERN AUSTRALIA. By H. C. Hoover. E & M. J., vol. 66, p. 725. 3\frac{1}{3} columns.
- ORE TREATMENT IN BOULDER COUNTY, COLORADO. By C. C. Burger E & M. J , vol. 65, p. 129. 3 columns. I.
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- PRIDE OF THE WEST MILL AND SMELTER, WASHINGTON CAMP, ARIZONA. By J. Scobey E & M. J., vol 72, p 110. 13 columns. I.
- Notes on the Ymir Mine and Its Mill Practice By S. S. Fowler. J. C. M. I., vol. 3, p. 3 8 pages.
- Notes on Gold Milling Practice at the Athabasca Mine, Nelson, BC By E. Nelson. J. C. M. I., vol. 4, p 83. 8 pages.
- IMPROVEMENTS IN THE DRESSING OF GOLD ORES. By F. Hill. T. F. C. M. I, vol. 1, p. 21. 13 pages. I
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- GOLD MILLING IN AUSTRALIA By T A Rickard. E & M J, vol 57, p 101, 2½ columns; and p 128, ½ column.
- THE CACTUS MILL AT NEWHOUSE, UTAH. A Modern Concentrating Plant of 1000 Tons Daily Capacity By L. A. Palmer M & M, vol. 26, p. 337. 8 columns I.
- THE SOUTH KALGURLI COMPANY'S SYSTEM OF ORE TREATMENT BY A C Claudet E & M. J, vol 81, p. 129. 4 columns I.
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- THE NEWHOUSE MINE AND MILL. E & M. J., vol. 80, p 57 3 columns. I
- MILLING PRACTICE AT IDAHO SPRINGS, Colo By H F. Bain E. & M. J, vol 72, p 425 2 columns
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- THE CONCENTRATION OF SAN JUAN ORES E & M J., vol 40, p. 164 1½ columns.
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- TREATMENT OF ORES OF NATIVE SILVER IN CHIHUAHUA, MEXICO By H B Cornwall E & M J, vol 13, p 211, 2 columns, and p 259, 2½ columns
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- ORE MILLING AT KALGOORLIE BY H J Brooke E & M J, vol 80, p 4 4 columns
- GOLD WASHING IN COLOMBIA BY C Bullman E & M J. vol 53, p 374 2 columns I
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- STAMP MILLS IN ECUADOR By F W Oldfield E & M J, Dec 8, 1904, ½ column; and Min Mag, Jan, 1905, p 83.
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- An Improved Colombian Gold-Mill. By E Halse. E & M J, vol 71, p 181 2½ columns I
- GOLD MILLING PRACTICE AT THE ATHABASCA MINE, NESLON, B C. By E N. Fell E & M J, vol 71, p. 518. 2½ columns
- THE UNION GOLD EXTRACTION COM-PANY'S MILL AT FLORENCE, COLO. By J E Rothwell E & M J, vol 71, p 721 7 columns I
- THE NEW MILL AT BATOPILAS, STATE OF CHIHUAHUA, MEXICO By J C F Randolph T A I M E, vol 10, p 293
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- THE TONOPAH MINING COMPANY'S
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 M J, vol 80, p 682 4 columns I.
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- THE DALY-WEST MILL By W I. Spencer Bull Colo Sch of Mines, Jan., 1905

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- ORE TREATMENT AT MOUNT LYELL Min. & Sci Press, vol 86, p 302, 2\frac{1}{4} columns; p 319, 2\frac{1}{2} columns; and p. 332, 1\frac{1}{2} columns
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- CONCENTRATION AT THE DALY-JUDGE MILL, UTAH M & M, vol 28, p 80 4 columns I
- A WET SILVER MILL, MONTANA BY R B. Brinsmade M & M, vol. 26, p 492. 111 columns I
- Some Notes on the Milling of Gold Ores. By J. E. Hardman. T F. C. M. I., vol. 2, p. 100. 10 pages.

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- CURRENT PRACTICE (in Milling) AT CRIPPLE CREEK By G E Wolcott E & M J, vol 78, p 911. 3½ columns.
- MILL STATISTICS, WITH SPECIAL REFERENCE TO THE EXTRACTION OF PRECIOUS METALS E & M J, vol. 36, p. 309 21 columns
- THE CENTRAL MILL OF THE NORTH
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- MILLING VS SMELTING IN THE TREAT-MENT OF TONOPAH-GOLDFIELD ORE. By F L Bosqui Min & Sci Press, vol 92, p. 217. 2 columns I
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- ORE TREATMENT AT THE COMBINATION MINE, GOLDFIELD, NEV By F. L. Bosqui Min & Sci Press, vol 93, p 413, 4½ columns, I; and p 451, 8 columns I
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- THE MILLING OF GOLD ORES IN CALIFORNIA By W. H Storms Min. & Sci Press, vol 92, p 416 2½ columns
- THE WALL CONCENTRATING MILL,
 BINGHAM, UTAH By C T Rice.
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- Notes on the Portland Mine and Mill, Colorado E & M. J., vol. 82, p 774 2 columns
- MILLING IN THE COPPER COMPANY'S MILL, BINGHAM CANYON E & M J, vol. 82, p 436 3½ columns
- THE DALY-JUDGE MILL E & M J., vol 82, p. 248 5½ columns I
- SILVER KING MILL, PARK CITY, UTAH (Flow Sheet) E. & M. J., vol. 82, p. 202. 7 columns. I.

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- GOLD AND SILVER EXTRACTION IN SOUTH AMERICA By J. Buchanan. J C & M. Soc. S. A, vol. 1, p. 41. 10 pages.
- MILLING PRACTICE AT THE GRANA-DENA MILL, MEXICO. By S F. Shaw E & M. J., vol. 84, p. 637. 6½ columns.
- THE STEPTOE VALLEY MILL AND SMELTER. By W. R. Ingalls. E & M J, vol 84, p. 813. 112 columns. I.
- THE MONTGOMERY-SHOSHONE MILL By P. E Van Saun. M & M, vol. 28, p. 385. 4 columns. I.
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- MILLING AT GLADSTONE, COLO By G. P. Scholl. M. & M., vol. 27, p. 498. 3 columns. I.
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- Notes on the Common Practice of Quartz Milling on the Rand. By F. Alexander J. C. & M. Soc. S. A, vol. 3, p. 298. 48 pages.
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- Variations in the Milling of Gold Ores By T A Rickard E. & M. J., vol. 54, p 198, 4 columns, I; p. 222, 2 columns, I, p. 245; p. 534, 3½ columns; p 558, 4 columns; vol 55, p 78, 3 columns; p 101, 3½ columns, p. 222, 2 columns; p 27, 2½ columns, p 389, 3½ columns; p. 416, 2 columns; p. 534, 3½ columns, p 560, 2 columns; vol. 56, p. 317, 3½ columns.
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- CONCENTRATION AT MOWRY, ARIZONA.

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- MILLING LEAD-ORE IN THE WISCONSIN-IOWA-ILLINOIS REGION E & M.J, vol 82, p. 60. 1 column I
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- Some Points in the Treatment of Lead Ores in Missouri By C. P. Williams. T. A. I. M. E, vol. 5, p 314.
- CONCENTRATION OF ARGENTIFEROUS
 GALENA AS CARRIED ON AT HELENA,
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 MILLS, GEM, IDAHO By W. Muir.
 J C M. I, vol. 4, p. 254 10 pages.
- New Bunker Hill and Sullivan Mill Built in Four Months M & M, vol 20, p 343 1½ columns
- St Mary's Lead Works, Cornwall, England. By W. R. Lewis E & M J, vol 74, p. 216. 2 columns I.
- THE PIERREFITTE CONCENTRATING MILL, FRANCE. By M. S Slutchbury T. I M. & M., vol. 10, p. 457. 6 pages. I.
- THE BAMBERGER-DELAMAR MINE, NEVADA. E & M. J, vol. 77, p 725. 11 columns.
- THE MILL OF THE NORTH STAR GOLD MINE, GRASS VALLEY, CAL. E. & M J, vol. 43, p. 400. 1 column I.
- THE MINES AND WORKS OF THE LEHIGH ZINC COMPANY E. & M J., vol 12, p. 129, 3 columns; and p. 145, 3½ columns.
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- DEVELOPMENT OF COARSE CONCENTRATION IN THE SLOCAN DISTRICT, B C. By S S Flower. J. C. M. I., vol 6, p 146 14 pages.
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- MILLING THE VIRGINIA ZINC-ORES. T. A. I. M. E., vol. 37, p. 307. 5 pages.
- IMPROVEMENTS IN MILLING MISSOURI ZINC ORES By W. E. Ford. E. & M J, vol. 84, p 868. 74 columns.
- THE PRESENT STATUS OF THE SEPARATION OF ZINC BLENDE IN COPPER AND LEAD ORES By R C. Canby. Min. Mag., vol. 13, p. 476 8 columns.
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 PYRITES. A New Metallurgical Industry By W P. Blake T A.
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- THE BALTIC MILL, LAKE SUPERIOR.

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- THE TREATMENT OF TIN-WOLFRAM-COPPER ORES AT THE CLITTERS UNITED MINES. By F Dietzsch. T. I. M. & M., vol. 15, p. 2. 60 pages. I.
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- L. Hancock. T I. M. E., vol. 27, p. 461. 24 pages. I.
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- THE WASHOE PLANT OF THE ANA-CONDA COPPER-MINING COMPANY IN 1905 By L. S. Austin. T A I M E., vol 37, p. 431 56 pages I
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- THE TREATMENT OF COPPER ROCK AT THE QUINCY MILLS, HUBBELL, MICH By C K Hitchcock, Jr Sch Mines Quart, vol 26, p. 340 5 pages I
- THE GARFIELD MILL OF THE UTAH
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- PRACTICE AT THE OSCEOLA MILL, LAKE SUPERIOR. By L Fraser. E & M J, vol 83, p. 1180 4 columns I
- CONCENTRATION AT CANANEA. By D. E Woodbridge E & M J, vol. 82, p 965. 1 column. I
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- ORE-DRESSING ON LAKE SUPERIOR. By F F. Sharpless T L. S M I, vol 2, p 97. 10 pages. I
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- ORE TREATMENT AT THE IVAN HOE MINE, KALGOORLIE E & M. J, vol 78, p. 632. 2½ columns.
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- METHOD OF CONCENTRATING AT LA CANANEA. By M Schwerin. E & M J, vol. 76, p 463, 3 columns, I; and p. 650, 1½ columns

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- THREE-THOUSAND-TON CONCENTRA-TOR By R L Herrick M & M, vol 28, p. 450. 8 columns I
- TIN ORE DRESSING PLANT, EAST POOL, CORNWALL By E Walker. E & M J, vol 83, p. 941. 6 columns
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- MILLING AT THE DAVIS PYRITES MINE, MASSACHUSETTS. E. & M. J., vol. 82, p 772 6 columns. I.
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See DISTRICTS for further information.

Properties and Characteristics of Concrete

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- The Relative Value of Cements:
 Tensile Strengths. By C. D.
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- THE TECHNOLOGY OF CEMENT PLASTER. By P. Wilkinson. T. A. I. M. E., vol. 27, p. 508.
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 3 column.
- Use of Rubble Concrete for Thin Walls E. & M. J., vol. 77, p. 558. † column.
- WATER TIGHTNESS IN CONGRETE. By T. P. Roberts. P. E. Soc W. Pa., vol. 19, p. 136 4½ pages. I.
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- LINING A MINE ROADWAY WITH CONCRETE. By Ghysen T I. M. E, vol 26, p. 631. $\frac{2}{3}$ page
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CONVEYORS FOR MINERAL AND COAL

Kinds of Conveyors, Operation, etc.

- SLIDING-TROUGH CONVEYORS By M.
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 3 pages I.
- SAND LAUNDERS. E & M. J, vol 80, p 1119 2 columns
- CHUTE LANDINGS (for loading lumber on ships A possible chance for application to ores) Min & Sci. Press, vol 57, p. 9 1 column. I.
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- ENDLESS TROUGH OR PAN CONVEYOR. E & M J, vol. 55, p. 443. 1½ columns I.
- A Device for Cleaning Conveyor Belts E. & M J, vol 83, p 282. 1 column. I
- Notes on Conveying-Belts and Their Use By Thomas Robins, Jr. T A I M. E, vol 26, p. 78
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- PNEUMATIC ELEVATORS AND CON-VEYORS The Mech Handling of Material, p 107 10 pages
- Band Conveyors, Capacity of. The Mech Handling of Material, p. 57. 14 pages. I.
- METAL BAND CONVEYORS. The Mech. Handling of Material, p. 71. 3 pages I
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- COAL STORAGE The Different Methods of Storing and Handling the Steam Sizes of Anthracite Coal By C. Piez M & M, vol 18, p. 485. 7½ columns I.
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- NEW HULETT COAL UNLOADER ON ROCHESTER AND PITTSBURG COAL AND IRON COMPANY'S DOCKS AT BUFFALO, N. Y. M & M., vol. 19, p. 197. 1½ columns. I
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- MECHANICAL CONVEYORS FOR LONG-WALL MINING. By J. I. Thomas M. & M., vol. 28, p. 200. 6 columns. I.
- A CONVEYOR FOR FILLING COAL AT THE FACE. By L. André. T. I. M. E., vol. 31, p. 106. 2½ pages. I.
- Conveyors Underground. P. C. M., vol. 3, p. 73. 2 pages. I.
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DAMS FOR MINING PURPOSES

Stresses in Dams, Their Stability, and Other Data

- NEW EXPERIMENTAL DATA FOR FLOW OVER A BROAD CRESTED DAM BY T. T Johnson and E. L Cooley. J. W. Soc. E, vol. 1, p. 30. 22 pages. I.
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- Brickwork under Pressure as Applied to Dams. E & M J, vol. 33, p. 210. ½ column
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- EVAPORATION OF WATER FROM RESERVOIRS. E. & M. J., vol. 83, p. 77.
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- Green Creek Dam T A I M E, vol 26, pp 320, 321, 323
- DAM TO FORM RESERVOIR FOR COLLECTING SLIMES T A. I M E, vol. 33, p 520
- Dams for Mining Operations With Special Reference to Placer Workings Placer Mining, p 74
- Dams for Hydraulic Mining T A I. M E, vol. 6, p 76
- A MONTANA CRIB DAM By E Carroll E & M J, vol 67, p 711. 2 columns I.
- A Log Dam for a Mining Power Plant By R G Brown E & M. J., vol. 62, p 509. 2 columns I
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- Some Reservoirs Which I Have Seen By J. R. Croes. Columbia Engineer, '97-'98, p. 22 14 pages. I.
- THE LAGRANGE DAM, CALIFORNIA By E H Barton. T A I. M. E, vol. 29, p. 894.
- MEASURES ADOPTED FOR THE SAFETY AND SERVICE OF RESERVOIR DAMS By P. Kresnik E. & M. J, vol 49, p. 245. 1½ columns.

- THE WALNUT GROVE DAM DISASTER IN WYOMING. E. & M. J., vol. 49, p. 244 2 columns. I.
- ON WALLS TO RESIST THE PRESSURE OF WATER (Dams). By M Pellereau E. & M. J., vol. 26, p. 93. column.
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Underground Dams

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- WOODEN AND MASONRY DAMS IN MINES. By A. Hubner. T. I. M. E., vol. 23, p. 741. 1 page.
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- THE MINING INDUSTRY OF BELGIUM By A Briat T I M E, vol 15, p 470 20 pages
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- Matto Grosso, Brazil. By A. Brandenburg. E. & M J, vol. 82, p. 386. 2½ columns.
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- THE COAL FIELDS OF RIO GRANDE DO SUL, BRAZIL BY R Henschel. E & M J., vol. 10, p. 66. 3½ columns. I.

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- THE TIPUANI GOLD-FIELDS OF BOLIVIA. By W C. Agle E & M. J., vol. 63, p 544 11 columns.
- THE CRURO SILVER MINES IN BOLIVIA.

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- THE POTOSI, BOLIVIA, SILVER DISTRICT.

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- THE GOLD DEPOSITS OF THE TIPUANI RIVER, BOLIVIA By F. G Corning E & M J, vol 42, p 58. 5 columns. I.
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- MINING PRACTICE AT ROSSLAND,
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- A Trip to Rossland, British Columbia. An Account of Some of the Mines and the Peculiarities of the Ores. By A. Lakes. M. & M., July, 1900, p. 543. 6 columns.

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- THE CENTER STAR MINE, ROSSLAND, BRITISH COLUMBIA By L. H Cole. Min. & Sci. Press, vol 90, p 104, 1\frac{1}{3} columns, I; p 117, 2\frac{1}{3} columns, I.; and p. 140, 1\frac{1}{4} columns.
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- THE SLOCAN MINING DISTRICT, BRITISH COLUMBIA. By W. M Brewer. E & M. J., vol. 65, p. 549. 1 column
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- The Alvino Mines: A Description of an Old Mexican Mine and the Good and Bad Points of Some of the Ancient Methods still in Use. By A Mathez. M. & M, vol. 18, p. 241. 51 columns. I.
- Notes on the Espiritu Santo Mine at Cana. Its Drainage and Recovery. By E R Woakes. T. I. M & M, vol 3, p 285
- Some Silver-Bearing Veins of Mexico By E Halse T. I. M. E, vol 18, p 370, 14 pages, I; vol 21, p 198, 16 pages; vol 23, p 243, 14 pages, vol. 24, p. 41, 20 pages.
- THE TAVICHE MINING-DISTRICT NEAR OCOTLAN, STATE OF OAXACA, MEXICO. By H. M. Chance. T A I M E, vol 35, p. 886 6 pages.
- The Gold-Mines of the San Pedro District, Cerro de San Pedro, State of San Luis Potosi, Mexico By G A Laird T A I M E, vol 35, p 858 20 pages I.
- THE GOLD MINES OF MEXICO E & M J, vol 55, p 74 1 column.
- MINES OF VELARDENA, MEXICO. By E E Payne M & M., vol. 21, p. 51. 2½ columns I
- NATIVE SILVER ORES AND THEIR
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- THE MINING DISTRICT OF GUANA-JUATO, MEXICO E & M J, vol. 73, p 206. 111 columns I.
- THE UPLAND PLACERS OF LA CIENEGA, SONORA, MEXICO By R T Hill. E & M J, vol 73, p. 132. 6½ columns I
- THE MINING DISTRICT OF PACHUCA, MEXICO By I. E Ordonez E & M J, vol. 72, p. 719. 5 columns.

- THE RAYAS AND MELLADO MINES, GUANAJUATO, MEXICO. E. & M. J., vol. 72, p. 714. 1½ columns.
- La Descubridora Mine, Chihuahua, Mexico. E. & M. J., vol. 72, p. 698. 1 column. I.
- HIDALGO DEL PARRAL, CHIHUAHUA, MEXICO. E. & M. J., vol. 72, p. 456. 2 columns. I.
- THE ESPERANZA MINE, EL ORO, MEXICO. E. & M. J., vol. 74, p. 46. 2 columns.
- THE MINING DISTRICT OF PARRAL, STATE OF CHIHUAHCUA, MEXICO. By G A Burr. E. & M. J., vol. 75, p 216. 3 columns. I.
- THE PRIETA MINE OF PARRAL, MEXICO.

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- Minas Nuevas, Parral, Mexico. By G A. Burr E & M J, vol 75, p 404, 6½ columns, I.; and p. 440, 2½ columns, I.
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- Guanajuato. By J W. Malcolmson. E. & M J., vol. 80, p. 529. 2\frac{2}{3} columns.
- MINING IN MEXICO. E & M. J, vol. 77, p. 21. 6 columns. I.
- THE RAYON DISTRICT, CHIHUAHUA.

 By T A. T. Brown E & M J,

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- La Mina Santa Francisca, Mexico. By E H Cook. Min. Mag, vol. 11, p 425. 12 columns I.
- Some Notes on the Cerro Mercado, Mexico. By O. C. Farrington. E & M. J., vol. 78, p. 345 5 columns I.
- THE DOLORES (GOLD-QUARTZ) MILL.

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- THE MULATOS GOLD MINES, STATE OF SONORA, MEXICO. By L Janin, Jr. E. & M. J., vol. 49, p. 131. 3½ columns. I.

- THE OCAMPO DISTRICT, MEXICO. By A. R. Townsend. E. & M. J., vol. 77, p. 515. 5½ columns. Map.
- THE MINES OF SIERRA MOJADA, MEXICO. By E. O. Fechet. E. & M. J, vol. 55, p. 151. 2½ columns.
- THE MINES OF SOMBRESETE, MEXICO E & M. J, vol. 54, p. 604. 1½ columns
- THE MINING DISTRICT OF TASCO, MEXICO By R E Chism E & M J, vol 48, p. 27, 1½ columns; p 51, 1½ columns.
- THE MOCTEZUMA DISTRICT, MEXICO.

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- THE CATORCE MINING DISTRICT E. & M J, vol 48, p 340, 5 columns; p. 388, 2½ columns, p. 476, 3 columns
- Gold Mining in Mexico Min & Sci. Press, vol 74, p. 30 1 columns
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- A GUANAJUATO, MEXICO, MINING ENTERPRISE Min & Sci. Press, vol 81, p 5 2½ columns.
- Notes on the Parral District, Chihuahua, Mexico By H Z Osborne Min. & Sci Press, vol. 86, p 394 3 columns. I.
- SIX MONTHS AT THE CONCEPCION MINE, CATORCE, MEXICO. By W. S Godfrey. E. & M. J, vol. 51, p. 168. $1\frac{7}{8}$ columns.
- How Mexican Silver Mines are Worked Am Jour Min., vol. 3, p 102 1 column.
- THE MINES OF MEXICO. Am Jour. Min, vol 3, p 141 11 columns.
- Working Silver Ores in Pachuca, Mexico Min. & Sci. Press, vol 82, p 180. 1 column.

- GOLD IN ZACATECAS, MEXICO. By E. Halse. E. & M. J., vol. 58, p. 605. 2½ columns.
- Notes on Some Gold-Bearing Veins of Zacatecas, Mexico. By E. Halse E & M J, vol. 58, p. 78. 1½ columns.
- METHOD OF WORKING MINES OF SANTA EULALIA, MEXICO. By E. G. Cahill. Min & Sci Press, vol 88, p 329, 2 columns, I.; p. 349, 1½ columns.
- Notes on New Goldfields, Sierra County, North Mexico By E P. Smith Min. & Sci Press, vol. 88, p. 61. 2 columns Map.
- THE MALACATE SILVER AND GOLD MINES OF SULTEPEC, MEXICO BY E Halse. E. & M. J, vol. 58, p. 220. 21 columns.
- Some Silver-Bearing Veins of Mexico. By E. Halse. T. I M E, vol 18, p 370, 14 pages, I; vol 21, p. 198, 16 pages; vol 23, p 243, 14 pages; vol. 24, p. 41, 20 pages.
- THE MINES OF SANTA EULALIA, MEXico. By P B Aiken. Min. & Sci. Press, vol. 87, p. 402. 1½ columns.
- Pachuca, Mexico. By H E. West. Min & Sci. Press, vol. 92, p. 345. 43 columns I.
- THE PINGUICO MINE, GUANAJUATO, MEXICO By J A. Church E & M. J., vol. 82, p. 959. 52 columns.
- THE DOLORES MINES, CHIHUAHUA, MEXICO. E. & M J., vol. 82, p. 733. 2½ columns.
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- MINES OF THE TAVICHE DISTRICT, OAXACA, MEXICO. By A. E. Place and H. L. Elton. E & M. J., vol. 84, p. 625. 31 columns.
- THE MINES OF THE ALTAR DISTRICT, SONORA, MEXICO By J. S. Alexander. E. & M. J., vol. 83, p. 653. 5½ columns. I.

- THE MINES OF PLANCHAS DE PLATA.

 By F J H Merrill E. & M. J,
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- MINING CONDITIONS IN THE MOUNTAINS OF CHIHUAHUA, MEXICO. By J B Farish. E & M J, vol. 83, p. 221. 17 columns. I.
- THE DOLORES MINE, CHIHUAHUA, MEXICO By J B. Farish. E & M. J, vol 83, p 849. 23 columns I.
- Proano, a Famous Mine of Fresnillo, Mexico By J. A. Church. E & M J, vol. 84, p. 53. 9½ columns I.
- THE MINES OF LA LUZ, GUANAJUATO, MEXICO By J A Church E & M J, vol 84, p 105, 11²/₃ columns; p. 153, 7¹/₂ columns
- OLD AND NEW METHODS AT GUANA-JUATO By T A Rickard Min & Sci Press, vol. 94, p 824 32 columns. I
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- Some Silver-Bearing Veins of Mexico By E Halse T I M. E., vol 27, p 169 22 pages. I.
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- THE SIERRA MOJADA, COAHUILA, MEXICO, AND ITS ORE-DEPOSITS By J W. Malcolmson. T A I. M. E., vol. 32, p 100.
- COPPER DEPOSITS IN SINOLOA AND SOUTHERN SONORA, MEXICO BY F Rickard E. & M. J., vol 78, p. 97. 7 columns I.
- La Cananea Mining Camp. By G. E Woodbridge E & M. J., vol. 82, p 623 14 columns. I.
- Santa Cruz, a New Copper Camp in Sonora. By F. J. H. Merrill. E. & M. J., vol. 83, p. 1043. 1 column. I.
- THE CANANEA COPPER DEPOSITS. By R B. Brinsmade. M. & M., vol. 27, p. 422. 42 columns. I.

- THE COPPER-DEPOSITS AT SAN JOSE, TAMAULIPAS, MEXICO. By J. F. Kemp. T A I M E, vol. 36, p. 178 25 pages. I.
- THE TAVICHE MINING DISTRICT NEAR OCOTLAN, STATE OF OAXACA, MEXICO. T A I. M. E., vol. 36, p. 798. 2½ pages.
- THE MINES OF CANANEA, MEXICO. Min & Sci. Press, vol. 90, p 200, 2 columns, I.; p. 220, 3½ columns.
- COPPER MINING AT PLACERITAS DE NOCASARI, SONORA, MEXICO By H B Layton. Min. & Sci Press, vol. 80, p. 344 8 columns I.
- THE CANANEA ORE DEPOSITS E & M J, vol 76, p. 383, 1½ columns; p 421, 1½ columns; p 459, 5½ columns, I, p 1000, 12½ columns.
- THE CANANEA COPPER DEPOSITS, MEX-ICO By W H Weed. E & M J., vol 74, p. 744. 5 column I.
- ARIZONA AND SONORA By D E. Woodbridge E & M J, vol 81, p 896, I; p 990, I; p 1134, 4½ columns; p. 1180, 6½ columns, p 1229, 10½ columns; vol 82, p 8, 8½ columns, p 50, 7½ columns, I; p 103, 9 columns, I; p 150, 5 columns; p 242, 9 columns, I.; p 298, 9½ columns, I
- THE COPPER MINES OF NOCASARI, MEXICO E & M J, vol 72, p. 65. 2 columns
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- THE IRON MOUNTAIN AND PLANT OF THE MEXICAN NATIONAL IRON AND STEEL COMPANY, DURANGO, MEX-ICO By T. E Witherbee. T. A. I M E., vol. 32, p. 156.
- Iron in Mexico. By R E Chism. E & M. J., vol. 46, p. 391. 2 columns.

- THE CERRO DE MERCADO (IRON MOUNTAIN) AT DURANGO, MEXICO By J Birkinbine. T. A. I. M E, vol 13, p. 189.
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- Las Esperanzas Coal Mines, Mexico By E Ludlow E. & M. J., vol 71, p. 331. 2 columns I.
- THE COAL-FIELDS OF LAS ESPERANZAS, COAHUILA, MEXICO By E Ludlow. T A I M. E., vol 32, p. 140
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- THE COALFIELDS OF MEXICO E & M J, vol 57, p. 535. \$\frac{2}{3}\$ column
- THE COAL-FIELDS OF SONORA, MEXICO By J Overend T F. I M E., vol 7, p. 230. 4 pages
- THE SABINAS COALFIELD, MEXICO By E G Tuttle E & M. J., vol 58, p 390 3½ columns. I.
- THE CERRILLOS ANTHRACITE MINES By A Lakes M. & M, vol. 21, p. 341 1½ columns. I.
- NATURAL COKE OF THE SANTA CLARA COAL-FIELD, SONORA, MEXICO. By E T. Dumble T. A. I. M E, vol. 29, p. 546.
- Notes on the Tin-Deposits of Mexico. By W R Ingalls. T. A. I M. E, vol. 27, p. 428.
- THE TIN-DEPOSITS OF DURANGO, MEX-ICO By W R. Ingalls. T. A. I. M. E, vol. 25, pp. 146, 997.
- THE SAIN ALTO TIN DEPOSITS, STATE OF ZACATECAS, MEXICO. By J. N. Nevins. E & M. J., vol 75, p. 929. 2 columns. I.
- Tin-Mining and Smelting at Santa Barbara, Guanajuato, Mexico. By A H Bromly. T. A. I. M. E., vol 36, p. 227. 7 pages. I.
- THE OCCURRENCE OF TIN-ORE AT SAIN ALTO, ZACATECAS, WITH REFERENCE TO SIMILAR DEPOSITS IN SAN LUIS POTOSI AND DURANGO, MEXICO. By E Halse. T. A. I. M. E., vol. 29, p. 502.

- THE SAN JACINTO TIN MINES, MEXICO.
 Min. & Sci. Press, vol. 39, p. 397.
 32 columns. Map.
- QUICKSILVER ORES IN MEXICO. Min. & Sci Press, vol. 57, p. 38. 1 column.
- QUICKSILVER MINING IN THE DISTRICT OF GUADALCAZAR, STATE OF SAN LUIS POTOSI, MEXICO. By H F. Collins. T. I. M. & M., vol. 4, p. 121.
- THE QUICKSILVER MINES AND REDUC-TION-WORKS AT HUITZUCO, GUER-RERO, MEXICO. By E. Halse. T F. I. M. E, vol. 10, p. 72. 16 pages. I.
- MINING AND TREATMENT OF QUICK-SILVER ORES AT GUADALCAZAR, MEXICO. By W. H. Rundall E. & M. J., vol. 59, p. 607. 27 columns. I.
- THE QUICKSILVER DEPOSITS OF HUITZUCO By F. D Pagliucci. E. & M. J, Mar. 2, 1905, p. 417. 3 columns. I.
- SALT PRODUCTION IN MEXICO. E. & M J, vol 84, p. 626. \(\frac{3}{4}\) column.
- THE MINERAL ZONE OF SANTA MARIA DEL RIO, SAN LUIS POTOSI, MEXICO. By Jesus P. Manzano. T. A. I. M. E, vol. 32, p. 478.
- Notes on the Structure of Ore-Bearing Veins in Mexico. By E. Halse. T. A. I. M. E., vol. 32, p 285.
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- ASPHALT IN MEXICO. E. & M. J., vol 62, p. 610. 1 column.
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- Notes on the Occurrence of Manganese Ore near Mulege, Baja, California, Mexico. By E. Halse. T. F. I. M. E., vol. 3, p. 934. 7 pages. I.

- GEMS AND PRECIOUS STONES OF MEXICO. By G. F. Kunz. T. A. I. M. E., vol. 32, p. 55.
- MEXICAN ONYX MINES. E. & M. J., vol. 52, p. 729. 1½ columns.
- THE SAHUAYACAN DISTRICT, MEXICO. By R M. Bogg, Jr. E. & M. J., vol. 79, p. 749. 42 columns. I.
- THE SANTA ELENA MINE, MEXICO. E. & M J., vol. 68, p. 275. 2 columns. I.
- THE TOJOS MINE, MEXICO. By F B. Fowler. E. & M. J, vol. 68, p 666.
- THE NOCOSARI MINES, MEXICO. BY H B Layton E & M J, vol 69, p 678, 4 columns I, p 707
- THE GEOGRAPHICAL AND GEOLOGICAL DISTRIBUTION OF THE MINERAL DEPOSITS OF MEXICO By J G. Aguilera T. A. I. M E, vol 32, p 497.
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- Sierra Mojada, Mexico. By R C Chism. T. A I. M. E, vol 15, p 542.
- El Oro District, Mexico. By R. T Hill. E & M J., Mar 2, 1905, p. 410. 12 columns. I.
- THE MINING DISTRICT OF OCAMPO, MEXICO E. & M J., vol. 57, p 171. 2 columns.
- THE GUANAJUATO MINING DISTRICT By R. T. Hill E & M. J., vol 77, p. 598, 8 columns, I.; p. 642, 6 columns, I.
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- THE PASTRANA MINE, MEXICO. By J. C F Randolph. Sch. Mines Quart., vol. 2, p. 107. 8 pages.
- MINING NOTES FROM SINALOA, MEX-ICO By W W. Fisk. E. & M. J., vol. 72, p 109. 4 column.
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- MINING DEVELOPMENT IN MEXICO DURING 1902 By J. W. Malcolmson. E. & M. J., vol. 75, p. 35. 13² columns. I.
- THE MINING DISTRICT OF SAN JOSE, MEXICO E & M J, vol 44, p. 447. 111 columns
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- MEXICAN RESOURCES. By J. W. Gray M. & M., vol. 20, p. 254. $1\frac{1}{2}$ columns.
- MEXICAN MINING CUSTOMS. Min. & Sci Press, vol 63, p 344 23 columns
- Sonora, Mexico, Timber, Coal, Mines and History. Min & Sci Press, vol 38, p 233. 6 columns I Map.
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- FROM PARRAL TO GUADALOUPE Y CALVO, CHIHUAHUA, MEXICO BY H Z Osborne Min & Sci Press, vol 87, p 51, 3\frac{3}{4} columns, I; p 64, 3 columns, I.; p 83, 2 columns, I.
- Three Weeks in Mexico By T. A. Rickard. Min & Sci Press, vol 93, p 7, 4½ columns, I.; p 53, 6 columns, I; p. 83, 4 columns, I; p. 350, 9½ columns, I; p 381, 8 columns, I; p 416, 6 columns, I; p. 442, 7½ columns, I; p. 506, 6 col-

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- THE MINING DISTRICT OF ASIENTOS, MEXICO. By B. Newman. E & M. J., vol. 83, p 1044. 6½ columns I.
- An Account of the Central and Mineral Districts of Vera Cruz. Am Jour. Min., vol. 4, pp. 258, 291, 306.
- TRAVELING ON THE WEST COAST OF MEXICO. By D. E. Woodbridge. E. & M. J., vol. 84, p. 627. 101 columns. I.
- THE MINERALIZATION OF MEXICO. By F J. H. Merrill E. & M. J., vol. 83, p. 667. 21 columns
- Los Pilares Mine, Nocosari, Mexico By S F Emmons E & M. J, vol 82, p 1066 4 columns I.
- THE LLUVIA DE ORO DISTRICT, MEXICO. EY R H. Burrows Min & Sci Press, vol. 94, p. 664. 6 columns. I
- THE COPETE DISTRICT, CENTRAL SONGRA, MEXICO. By F. J. H Merrill. E & M J., vol. 82, p. 628 2 columns.
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- THE GOLD BEARING SANDS OF THE VERMILION RIVER By J W Evans. J. C. M. I., vol. 2, p. 105. 3 pages.
- THE DEAD RIVER GOLD RANGE, MICHIGAN. E & M. J, vol. 52, p. 119. ½ column.
- THE NEW MICHIGAN GOLD FINDS. E. & M J, vol. 46, p. 238. 2½ columns. I.
- THE GREAT GOLD FIND IN MICHIGAN. E. & M. J, vol 44, p 40 1 column.
- Silver in Michigan Min & Sci. Press, vol. 26, p 294 $\frac{2}{3}$ column
- Notes on the Michipicoten Gold-Belt By C H. Clarke E & M J, vol 76, p 735. 3 columns.
- A LAKE SUPERIOR SILVER MINE, MICHIGAN Min. & Sci Press, vol 31, p. 98, \(\frac{3}{4}\) column; p 130, \(\frac{3}{4}\) column.
- COPPER MINING ON LAKE SUPERIOR. By J. P. Channing Min & Sci. Press, vol 92, p 198 2½ columns. I.
- MINES OF THE LAKE SUPERIOR COPPER
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- Table of Copper Mining Statistics. T L S M. I, vol 12, p. 24 1 page.
- COPPER MINING IN UPPER MICHIGAN.

 By J. F. Jackson Min & Sci. Press,
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- THE LAKE SUPERIOR COPPER DISTRICT. By W. S. Hutchinson. E. & M. J, vol. 82, p. 253. 4 columns. I.
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- DESCRIPTION OF VARIOUS MINES AND MILLS. T. L. S. M. I., vol. 12, p. 25. 26 pages.
- BRIEF DESCRIPTION OF THE CALUMET AND HECLA MINE, LAKE SUPERIOR, MICHIGAN. By E. McCormick Min. & Sci. Press, vol. 75, p. 459. 13 columns. I.
- LAKE SUPERIOR COPPER MINES. By H. J. Stevens. Min & Sci. Press, vol. 88, p. 381. 2 columns.
- THE COPPER AND IRON-BEARING ROCKS
 OF LAKE SUPERIOR. By A. C.
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- SOME OCCURRENCES OF NATIVE COPPER AT KEWEENAW POINT, LAKE SUPERIOR By H Credner E & M J, vol 9, p 3, 1½ columns; p. 24, 1 column, p 36, 1½ columns.
- THE RELATION OF THE VEIN AT THE CENTRAL MINE, KEWEENAW POINT, TO THE KEARSARGE CONGLOMERATE. By L L Hubbard T L S M I, vol 3, p 74 10 pages I.
- THE ORIGIN AND MODE OF OCCURRENCE OF THE LAKE SUPERIOR COPPER DEPOSITS By M E. Wadsworth T. A. I. M. E., vol. 27, p 669
- THE COPPER-BEARING ROCKS OF LAKE SUPERIOR By R D. Irving. U S. G S, Monograph V. 464 pages 1883
- ORE DEPOSITS OF LAKE SUPERIOR COPPER DISTRICT E. & M. J, vol. 78, p 625. 7½ columns.
- COPPER MINES OF LAKE SUPERIOR By T A Rickard E & M J, vol. 78, p. 585, 7 columns, I; p. 625, 7½ columns, I.; p. 665, 6½ columns, I.; p. 705, 5½ columns, I.; p. 745, 7½ columns, I.; p. 785, 6 columns, I; p. 825, 7 columns, I.; p. 865, 8 columns, I.

- COPPER MINES OF LAKE SUPERIOR BY T. A. Rickard. E. & M J., vol. 78, p 905, 9 columns, I.; p. 945, 17 columns, I.; p. 1025, 6 columns I.
- THE BELT COPPER MINE, MICHIGAN. E & M. J., vol. 36, p. 47. 2 columns.
- MICHIPICOTEN ISLAND AND ITS COPPER MINES. By H. Poole. E & M. J., vol. 54, p. 125. 2 columns. I.
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Machine or Power Drills

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- THE ROSS ROCK-DRILL By J. M. ROSS T F. I M. E, vol. 8, p 205. 5 pages I
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- KINDS AND SIZES OF BITS USED IN THE HEMATITE MINES OF NEW YORK, WITH METHODS OF SHARPENING E. & M. J., vol. 82, p. 555. 11 columns.
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- New Form of Steel Drill Bar Min & Sci Press, vol 49, p. 17. 11 columns I.
- "STAR" vs "CHISEL" BIT. E. & M. J, vol 81, p 620 Note.
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- A B C of Steam Percussion Drill Practice By J P Hutchins E. & M J, vol 84, p 1111, 12 columns, I; p 1151, 15 columns, I.; and p 1197, 15½ columns, I.
- Boring an Oil Well By J H. Pierce Min & Sci. Press, vol 91, p 443 2½ columns. I.
- The American System of Drilling. P C M, vol. 1, p 106 3½ pages I.
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- CRIPPLE CREEK Description of Volcanic Formation, and the Present Condition of the World's Greatest Gold Mining Camp. By A. Lakes M. & M., vol. 21, p. 277. 6½ columns. I
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- Some Veins of Gunnison County, Colorado. E. & M. J., vol. 63, p 597. 1½ columns.
- SILVER CLIFF By F. L. Vinton. E. & M J., vol 27, p 57. 2 columns. I.
- San Juan Silver Mines, Colorado. E. & M. J., vol. 31, pp. 22, 40, 92.
- Across the San Juan Mountains. By T. A Rickard E. & M J., vol 76, p 7, 5 columns, I, p 45, 4½ columns, I, p 82, 7 columns, I; p. 118, 6 columns, I, p 154, 5 columns, I, p 230, 2½ columns, I; p 269, 4 columns, I; p 307, 3½ columns, I, p 346, 3 columns, I, p 385, 6½ columns, I, p 423, 4½ columns, I, p 461, 7 columns, I, p 461, 7 columns, I.
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- THE AMERICAN NETTIE MINE, NEAR OURAY, COLORADO By A. Lakes. M & M., vol. 21, p 241. 8 columns. I.
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HANDLING AND STORAGE OF MINERAL

Methods of Handling Mineral and Coal

- HANDLING IRON ORES AT THE SPANISH MINES. E. & M. J., vol. 62, p. 415. 1 column.
- New Rock-Handling Machinery. By A. Forsyth. E & M. J., vol. 76, p 501. 51 columns.
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- SURFACE PLANTS OF BITUMINOUS COL-LIERIES: The Points to be Considered

- for Securing Economy of Operation. By W. C. Wilkins. M. & M., vol 18, p. 347. 5 columns. I.
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- ARRANGEMENTS FOR HANDLING COAL OUTPUT By F. W Parsons E. & M J, vol. 84, p. 740 9 columns. I.
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Loading and Unloading Cars, Boats, etc.

- MECHANICAL ARRANGEMENTS FOR SHIPPING COAL AT THE BUTTE DOCKS. By J. McConnochie E. & M J, vol. 18, p 130. 2 columns.
- DISCHARGING VESSELS AND BARGES BY MEANS OF ELEVATORS The Mechanical Handling of Material, p 255. 17 pages I.
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- HANDLING ORE AT THE YELLOW DOG MINE, JOPLIN, MISSOURI. M. & M, vol 28, p 167 6 pages I.

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- AN ELEVATOR FOR SMELTING WORKS. By J G. Clemmer E. & M. J, vol 71, p. 781. 2 columns. I
- HOISTING (by Elevator) AT THE
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HAULAGE IN MINES

Tractive Force in Haulage

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- Forces on Inclined Planes. Min. & Sci. Press, vol. 91, p. 259. Table.
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See METALLURGY OF VARIOUS METALS for further information on Roasting.

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Electro-Metallurgy

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METALS

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- TABLES FOR THE RAPID DETERMINATION OF THE COMMON MINERALS BY "EXTERNAL" SIGNS AND BY THE BEHAVIOR OF THE MINERALS BEFORE THE BLOWPIPE. By A. J. Moses. Sch. Mines Quart., vol. 11, p. 334. 20 pages.
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Measurement and Weight of Ore, Coal and Stone

- THE MEASUREMENT OF ORE IN DUMPS.

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- THE DALY-JUDGE ORE, UTAH. M. & M, vol. 28, p. 34. ½ column.
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- REMARKS ON A GOLD SPECIMEN FROM COLORADO By G. W. Maynard. T. A. I. M E., vol. 8, p. 451.

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- For further information on Gold and Silver see Occurrence of Gold and Silver.

Copper Ores and Minerals

- COPPER OXIDES AND THEIR USES.

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For further information on Copper see Occurrence of Copper.

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- A Brief Review of the Titaniferous Magnetites. By J. F. Kemp. Sch Mines Quart., vol. 20, p. 323, 34 pages; vol. 21, p. 56, 9 pages.
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- Some Ontario Magnettes. By R. W. Raymond. T. A. I. M. E., vol. 19, p. 28; vol. 20, p. 172.
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For further information on Iron see Occurrence of Iron.

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Nickel Ores and Minerals

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For further information on Nickel see Occurrence of Nickel

Salt, Quicksilver, Radium, Sulphur, Asbestos, Amber, Phosphates, etc.

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MINE AND MILL CONSTRUCTIONS

Design of Structures: Materials and Methods of Construction

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MINING LAW

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- KEROSENE, "THE WORLD'S LIGHT," AND MIXED OILS Rept. Inspr. Mines Pa., 1879, p. 225. 2 pages.
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- CORNISH TIN MINING IN PHOTOGRAPH.

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- THE MINING, CONCENTRATION AND AN-ALYSIS OF CORUNDUM IN ONTARIO, CANADA. By W. L. Goodman. T. I. M. E., vol. 23, p. 446. 11 pages. I.
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- A GRAPHITE MINE. By R. H. Palmer. E. & M. J., vol. 68, p. 694. 11 columns. I.
- Asbestos Mining and Dressing at Thetford. By H. N. Thompson. T. F. C. M. I., vol. 2, p. 273. 5 pages.
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- CAVING AT MOWRY, ARIZONA. M. & M, vol. 27, p. 529. ½ column. I.
- STOPING WITHOUT TIMBERS AT THE HOMESTAKE MINE, SOUTH DAKOTA. By M Ehle. M. & M., vol 28, p. 460. 31 columns. I.
- THE "SLASH" SYSTEM OF MINING. BY C T Rice. E & M. J., vol 81, p. 1191. 1½ columns.
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- THE CAVING SYSTEM IN THE UTAH MINE, BINGHAM CANYON. E. & M. J., vol. 84, p. 437. 2 columns.
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Pocket Mining

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- THE "POCKET MINES" OF TUOLUMNE COUNTY. Min. & Sci. Press, vol. 40, p. 354 11 columns.

- POCKET MINING. Min. & Sci. Press, vol. 47, p. 169; vol. 50, p. 234. 1 column.
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Drift Mining

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Methods of Stoping in Mines

- Stopes and Stoping Stopes, Underhand Stoping, Overhand Stoping, Combined Stoping, Breast or Side Stoping, Longwall Stopes, and Methods of Working Reefs which are Close Together. The Witwatersrand Gold-Fields, pp. 336-345.
- Breaking the Ore in the Stope Face. The Witwatersrand Gold-Fields, p. 357. I.

- Notes on Breaking Ground. By T. L. Carter. E. & M. J., vol. 74, p. 576. 4 columns. I.
- METHODS OF STOPING: Over- and Under-hand on the Rand. Witwatersrand Gold-Fields, p. 335. 30 pages. I.
- OVERHAND STOPING AT LAKE SUPERIOR. E. & M. J., vol. 82, p. 767. 6 columns. I.
- Over-hand Stoping at the Emma Mine, Canada. E. & M. J., vol. 84, p 497. $\frac{3}{4}$ column.
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- THE WORKING OF A WIDE GOLD QUARTZ REEF IN SOFT GROUND AT REZENDE, RHODESIA. By J. A. Woodburn. T. I. M. & M., vol. 12, p. 286. 15 pages. I.
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- MINING AT THE EAST FINGALL MINE, WEST AUSTRALIA (Method of Stoping). Min. Mag., vol. 11, p. 447. 3 columns.
- STOPING ON THE RAND. Gold Mines of the Rand, p. 127. 6 pages. I.
- STOPING IN WEST AUSTRALIA. Gold Min. & Mill. W. Aus., p 179. 1 page.
- STOPING AT THE DALY-WEST MINE. M & M, vol. 28, p. 354. ½ column.
- STOPING METHODS IN THE TINTIC DISTRICT M. & M., vol. 28, p. 293. a column.
- STOPING AT BINGHAM, UTAH. M. & M, vol. 28, p. 105. 2 columns.
- STOPING SYSTEMS AT BROKEN HILL, AUSTRALIA. By A. J. Moore. M. & M, vol. 27, p. 433. 9 columns. I.
- METHOD OF MINING (Overhand Stoping) IN THE KENTUCKY LEAD MINES. E & M. J., vol. 83, p. 658. 11 columns I.
- METHODS OF PROSPECTING AND MINING IN THE GALENA-JOPLIN DISTRICT. By W. R. Crane. E. & M. J., vol. 72, p. 360. 5 columns. I
- ZINC-BLENDE MINES AND MINING NEAR WEBB CITY, MISSOURI. By C. Henrich. T. A. I. M. E., vol. 21, p. 3.
- METHODS OF WORKING THE ZINC DE-POSITS NEAR WEBB CITY, MISSOURI. By O. Rees. Coll. Engr. & Met. Miner, vol. 15, p. 29. 3½ columns. I.
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- MINING ZINC ORE BY "DRIFT-SKIRT-ING." T. A. I. M. E., vol. 37, p. 304. 3 pages. I.
- GROUND BREAKING IN THE JOPLIN DISTRICT: Stoping. By Doss Brittain. E. & M. J., vol. 84, p. 255. 13 columns. I.

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- MINING SHEET GROUND IN THE JOPLIN DISTRICT. By D. Brittain. E. & M. J., vol. 84, p. 1117. 6½ columns. I.
- BACK-STOPING IN HARD IRON ORE. E. & M. J., vol. 84, p. 101. 2 columns. I.
- METHOD OF STOPING AT THE BADEN COPPER MINES, VALPARAISO. E. & M. J., vol. 84, p. 1060. 3 column. I.
- IRON ORE MINING IN THE LAKE SU-PERIOR REGION. By J. P. Channing. E. & M. J., vol. 60, p. 394. 61 columns. I.
- MINING PRACTICE IN BUTTE, MONTANA, COPPER MINES: Methods Employed in the Various Operations. By R. B. Brinsmade M. & M., vol. 21, p. 103, 8½ columns, I.; p. 155, 8½ columns, I.
- Some Notes on a Lake Superior Copper Mine. E & M. J., vol. 66, p. 35. 13 columns. I.
- DRIFTING AND STOPING AT LAKE SU-PERIOR. By W. R. Crane. E. & M. J., vol. 82, p. 645. 6½ columns. I.

Mining Thick and Massive Deposits

- METHODS OF MINING LARGE ORE-BODIES IN AUSTRALIA. E. & M. J., vol. 80, p. 962. 5 columns.
- Systems of Mining in Large Bodies of Soft Ore. By R. P. Rothwell. T. A. I. M. E., vol. 16, p. 862.
- METHOD OF WORKING MASSIVE DE-POSITS (Lodes 30 to 130, Average 50 to 60 feet) BY OVERHAND STOPING. M. & M., vol. 27, p. 339. 3 column. I.
- METHOD OF MINING THICK ORE BODIES AT BUTTE, MONTANA. M. & M., vol. 26, p. 407. 1 column. I.

- MINE PLANS: Method of Working the Magnetite Deposits of New York by Room and Pillar. E. & M. J., vol. 81, pp. 1036, 1038. I.
- METHODS OF WORKING IN THICK DE-POSITS OF IRON ORE. By S. W. Balch. Sch. Mines Quart., vol. 4, p. 98. 2 pages.
- METHODS OF MINING IN SOFT ORE BODIES. By J. H. Goudie. E. & M J., vol. 44, p. 467. 13 columns. I.
- Mining, in Soft Ore-Bodies at Low Moor. By W. S. Hungerford. T. A. I. M. E., vol. 17, p. 103.
- MINING SOFT IRON ORE WITHOUT TIMBER. By S. R. Elliott. Min & Sci. Press, vol. 92, p. 379. 2 columns. I.
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- A METHOD OF WORKING THE THICK COAL SEAMS IN TWO SECTIONS, ATTHE NEW HAWNE COLLIERY, STAFFORD-SHIRE, ENGLAND. By W. Charlton. M. & M., July, 1902, p. 556. 3½ columns.

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- WHAT IS THE BEST SYSTEM OF WORK-ING THICK COAL SEAMS? By O. J. Heinrich. T. A. I. M. E., vol. 2, p. 105.
- WORKING OF A THICK COAL-SEAM IN BENGAL, INDIA. By T. Adamson. T. I. M. E, vol. 25, p. 10. 6 pages. I.
- Mode of Working the Thick Coal-Seam of South Staffordshire Coal-Field. T. F. I. M. E., vol. 8, p 407.
- A METHOD OF WORKING THE THICK ('OAL-SEAM IN TWO SECTIONS By W. ('harlton T. I. M E, vol 21, p 264, 4 pages, I., vol. 23, p. 112, 4 pages
- METHODS OF WORKING THE 10-YARD OR THICK COAL OF SOUTH STAFFORDSHIRE. T. F. I M E., vol. 3, p. 35
- PROPOSED METHOD OF MINING THE MAMMOTH COAL SEAM Rept Inspr. Mines Pa, 1873, p 187. 21 pages. I.
- PROPOSED METHOD OF MINING A THICK SEAM OR VEIN (12 to 15 feet). Min & Sci Press, vol 93, p 46, 3½ columns, I; pp 76 and 77, 1 column+, I; p 196, 1½ columns; p 441, ½ column, I
- THICK-('OAL WORKING. P. C. M., vol. 2, p. 326. 4½ pages I
- WORKING THE THICK COAL-SEAM OF WARWICKSHIRE IN ONE OPERATION. T A I. M. E., vol. 33, p. 507. 4 pages.

Under-Sea Mining

- THE SEA AND MINING. By A. Lakes. M. & M., vol. 24, p. 12. 4\frac{1}{3} columns. I.
- Submarine Coal Mining. By A. Selwyn-Brown. E. & M. J., vol. 80, p. 913. 2 columns.

- MINING UNDER THE SEA. E. & M. J., vol. 75, p. 486. ½ column.
- Submarine Coal-Mining at Bridgeness, N. B., England. By H. M. Cadell. T. F. I. M. E., vol. 14, p. 237. 18 pages. I.
- COAL MINING UNDER SYDNEY HARBOR, NEW SOUTH WALES. M. & M., July, 1901, p. 557.
- Under-Sea Working. P.C.M., vol. 2, p. 333. 3 pages.
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- MINING UNDER WATERY STRATA. M. & M., vol. 19, p. 443. 1½ columns
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Mining Frozen Gravels

- WORKING FROZEN ALLUVIAL DEPOSITS IN SIBERIA. By E. D Levat. E & M. J., vol. 63, p. 599. 1½ columns. I.
- Working Frozen Ground in Siberia and Alaska. Placer Mining, p. 66.
- MINING FROZEN GROUND IN SIBERIA.
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- How Gold is Mined on the Klondike and the Chances of Fortune There. E. & M. J., vol. 64, p. 631.
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Packing Mine Working: Flushing Culm, Use of Waste, etc.

- Flushing Culm in Anthracite Mines By W. Griffith. M. & M., vol. 20, p. 388. 5½ columns. I.
- FLUSHING CULM: The Method of Filling Anthracite Mines with Culm and the Advantages of the Process. M. & M, vol 18, p. 342, 3½ columns; p. 389, 5½ columns. I.
- Flushing Culm A Novel Plan of Conveying Culm into Old Workings to Support the Roof. Coll Engr. & Met. Miner, vol. 14, p. 11. 2 columns I.
- CULM FILLING. By W. S Gresley.
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- Sand Flushing from the Surface. By V. Ranzinger. Min. Mag., Mar., 1905, p. 268.
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- Size of Pipe to Use in Flushing Culm. E. & M. J., vol. 82, p. 19. Note

- Breaker-Waste Disposal. E.&M.J., vol. 80, p. 304. 1 column.
- Flushing Culm in Mines: Wear of Pipes Remedied by Turning. Relative Cost Compared with Metal. E. & M. J., vol. 80, p. 344. 1 column.
- Flushing Culm in Collieries: Working Conditions. E. & M. J., vol. 83, p. 1056. $\frac{1}{3}$ column.
- Flushing Culm in Anthracite Coal Mining E & M J., vol. 83, p 626 Note, p. 722. Note.
- AMOUNT OF WATER NECESSARY TO FLUSH CULM E. & M. J., vol. 82, p. 1124. Note.
- THE COMPRESSION OF STOPE FILLINGS By B. J. Oberhausen Sch. Mines Quart, vol. 26, p. 271. 5 pages I
- Use of Waste Filling E & M J, vol. 84, p 1004. ½ column.
- AN ECONOMICAL MINING METHOD: Filling. Min. & Sci Press, vol 85, p. 366. 1½ columns. I.
- FILLING SYSTEM OF MINING AT THE HOMESTAKE MINE. Min. & Sci Press, vol. 88, p 177 3½ columns. I.
- METHODS OF MINING ON THE MOTHER LODE, CALIFORNIA Working in Swelling Ground Filling System. Min. & Sci Press, vol 82, p. 37, 12 columns, p 49, 12 columns
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- PROPOSED METHOD OF FILLING IN ANTHRACITE MINING. M & M., vol 19, p. 266. 1 columns. I.
- FLUSHING CULM. M & M, vol. 18, p 389, 4½ columns. I.; vol. 20, p 388, 5½ columns. I.
- PACKING WORKED COAL SEAMS BY FLUSHING. E. & M. J., vol. 77, p. 637. 2 columns. I.
- FILLING MINES (Coal) WITH SAND (in Upper Silesia). E. & M. J., vol. 72, p. 704. Note.

- HYDRAULIC FILLING OF A COAL SEAM AT LENS, PAS DE CALAIS, FRANCE. By L. R. Hill and M. Burr. E. & M. J., vol. 82, p. 543. 4½ columns. I.
- WATER-PACKING OF SEAMS. By K. Müller and Mussmann. T. I. M. E., vol 27, p. 722. 2 pages.
- WATER-FLUSH STOWING IN MINES. T. I. M E., vol. 31, p. 700 3½ pages.
- A SIMPLE METHOD OF WATER-STOWAGE EMPLOYED AT NO. 5 PIT OF THE ES-CARPELLE MINES. By Sante-Claire-Deville. T. I. M. E., vol 35, p. 79. 8 pages.
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- THE CONVEYOR-SYSTEM FOR FILLING AT THE COAL FACE, AS PRACTICED IN GREAT BRITAIN AND AMERICA BY W C Blackett and R G Ware. T I M E, vol. 29, p. 449 47 pages I.
- A METHOD OF PACKING EXCAVATIONS IN COAL-SEAMS BY MEANS OF WATER. By E. O. F. Brown T. I. M. E, vol 28, p. 325 14 pages. I.
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- WORKING AN IRON MINE (Filling System) Min. & Sci. Press, vol. 59, p. 305 4½ columns. I.
- THE SYSTEM OF FILLING AT THE MINES OF THE MINNESOTA IRON COMPANY, SOUDAN, MINNESOTA. By D H. Bacon T. A. I. M. E., vol. 21, p 299
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River Mining

- RIVER MINING. Min. & Sci. Press, vol. 34, p. 137, \(\frac{3}{4}\) column. I.; p. 322, \(\frac{1}{3}\) column; p. 337, \(\frac{1}{2}\) column; vol 35, p. 218, \(\frac{1}{4}\) column.
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- Diamond Digging in the Vaal River. E & M. J, vol 84, p 344 ½ column.
- Diving for Gold. Min & Sci. Press, vol. 46, p. 265. ½ column.
- Pool Mining for Gold. Min. & Sci. Press, vol. 46, p. 328. $\frac{2}{3}$ column.
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Deep Mining

- DEEP MINING. By J. Delvan. Min. & Sci. Press, vol. 43, p. 449. 12 columns.
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- Surface and Deep Mining. By T. D. McLeod. Min. & Sci. Press, vol. 68, p. 99. 1½ columns.
- Unsuccessful Deep Mining. Min. & Sci. Press, vol 53, p 248. $\frac{3}{4}$ column.
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- DEEP-LEVEL MINING. The Witwatersrand Gold-Fields, p. 459. 10 pages. I.
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- Considerations of Deep-Mining. By G. Farmer. T. I. M. E., vol. 31, p. 465 21 pages
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- OUR DEEP MINES: California. Min. & Sci Press, vol. 38, p. 249. 1 column.
- DEEP MINING ON THE COMSTOCK.
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- DEEP MINING IN CALIFORNIA. Min. & Sci. Press, vol. 75, p. 481. Note.

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- DEEP MINING AT THE UTICA MINE, ANGELS, CALIFORNIA. By J. H. Colher. T. A. I. M. E., vol. 29, pp. 835, 1051.
- DEEP FISSURING AT RICO, COLORADO. E & M. J., vol. 83, p. 1149. 1½ columns.
- DEEP MINING AT NEVADA CITY. Min. & Sci Press, vol. 67, p. 370. 1 column.
- LOWEST DEPTHS OF MINES ON THE COMSTOCK. Min. & Sci. Press, vol. 43, p 76. List.
- DEEP MINING ON THE COMSTOCK By J. A Church. E & M J., vol. 28, p 35 3½ columns.
- DEPTHS OF MINES CONNECTING WITH THE SUTRO TUNNEL, WITH ANGLE OF INCLINATION Min & Sci. Press, vol. 70, p 343 1 column.
- DEEP MINING IN CORNWALL. E. & M J, vol. 63, p 69 Note
- GREATEST DEPTH AT WHICH GOLD ORE HAS BEEN MINED E. & M. J., vol. 78, p 618 \(\frac{1}{4}\) column
- DEEP MINING IN MEXICO, AND THE CHANGES THAT OCCUR IN THE COUNTRY-ROCK AND VEIN-FILLING IN DEPTH By E Halse. T. I M. & M., vol 3, pp 418, 437.
- DEEP MINING IN NOVA SCOTIA. J. C. M. I., vol 2, p 119. I.
- MINING ON THE WITWATERSRAND TO 12,000 FEET DEEP. By J. Yates E. & M J., vol. 68, p 337. 4 columns
- MINING IN THE TRANSVAAL TO 12,000, FEET DEEP E & M J., May 18, 1901, p. 615. 2½ columns. I.
- DEEP LEVEL MINES ON THE WIT-WATERSRAND. E & M. J., vol. 58, p. 344. 1 column.
- DEEP LEVEL SHAFTS ON THE RAND. By A. E. Pettit. M. & M., vol. 26, p 413. 7 columns. I.

- DEEP LEVEL MINES ON THE WIT-WATERSRAND. E. & M. J., vol 76, p 80. 2 columns.
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- RELATION OF DEPTH AND VALUES. Min. & Sci. Press, vol. 78, p. 258. ‡ column.
- DEEP MINING AND THE PERMANENCE OF THE PAYSTREAK IN NOVA SCOTIA. E & M. J., vol. 67, p. 495. 2 columns.
- ORE DEPOSITION AND DEEP MINING. By Waldemar Lindgren. Min. & Sci. Press, vol. 92, p 41 2½ columns. I.
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- GOLD MINING AT 4000 FEET. Min & Sci Press, vol. 92, p. 104. 2 columns I.
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Panel Mining

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- An Illinois "Solid-Shooting" Mine: The Virden Shaft E & M. J., vol. 62, p 608. 11 columns I.
- SHOOTING OFF THE SOLID E. & M. J., vol. 80, p. 72. 1½ columns.
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- METHODS OF GETTING COAL Blasting. T N. S I. M. & M. E, vol 10, p 51. 3 pages.
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Rooms and Entries: Dimensions etc.

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- Width of Room and Pillar. M. & M., vol. 26, p. 25. 13 columns.
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- REOPENING FILLED GROUND (Spiling). By R. B. Brinsmade. E. & M. J., vol. 82, p. 347. 3 columns. I.
- THE REOPENING OF HARTLEY COL-LIERY. By R. E Ornsby. T. I. M. E, vol. 29, p. 657. 9 pages. I.
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- REOPENING OF THE GREAT ESPIRITU MINE OF COLOMBIA, NEARLY 200 YEARS OLD. E. & M. J., vol. 61, p 514. 1 column.
- THE REOPENING OF THE TILLY FOSTER IRON-MINE. By F. H. McDowell. T. A I. M. E., vol. 17, p. 758.
- THE REOPENING OF WALLSEND COL-LIERY. By H. Ayton. T. I. M. E., vol. 15, p. 87. 8 pages. I.
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- REOPENING OF THE BURLEY PIT, OPEDALE COLLIERY, NORTH STAF-FORDSHIRE, AFTER THE EXPLOSION OF MARCH 27, 1878. By J. Strick. T. N. S. I. M. & M. E., vol. 6, p. 183. 8 pages. I.
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- WASTE IN MINING. By S J Jennings. Min & Sci Press, vol. 93, p. 324. 3\frac{1}{3} columns.
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- Losses of Gold in Hydraulic Mining. T. I. M. E., vol. 27, p. 143. 4½ pages.
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- THE WASTE OF ANTHRACITE AND THE EXHAUSTION OF THE SUPPLY. E. & M. J., vol. 46, p. 233, ½ column; p. 278, 1 column, p. 345, 1 column; p. 367, 1½ columns, p. 433, 1 column.
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- Anthracite Waste Reclaiming It The Anth Coal Industry, p. 212. Roberts. 16 pages.
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MINING

Difficulties Encountered in Mining: High Temperatures, etc.; Increase of Temperature with Depth

- DIFFICULTIES OF MINING ON THE COM-STOCK. Min. & Sci. Press, vol. 48, p. 258. \(\frac{1}{2}\) column.
- DIFFICULTIES OF MINING ON THE COM-STOCK: Swelling Ground, Water, Air, etc Min. & Sci. Press, vol. 34, p. 146. \$\frac{3}{4}\$ column.
- Boulders in Mines. Min. & Sci. Press, vol. 81, p. 438. \(\frac{1}{3}\) column.
- TEMPERATURES IN DEEP-MINES T. I. M. E., vol. 31, p. 465. 2\frac{1}{3} pages.
- A RECORD OF AN INVESTIGATION OF EARTH TEMPERATURES ON THE WIT-WATERSRAND GOLD FIELDS, AND THEIR RELATION TO DEEP LEVEL MINING IN THE LOCALITY. By H F. Marriott. T. I M. & M., vol. 15, p 405. 28½ pages.
- Underground Temperatures in the Pas-de-Calais, France. T I M. E, vol. 32, p 580. ‡ page.
- Underground Temperatures, Especially in Coal Mines P C M & M Soc. S. A, vol. 5, p 350. 1 column.
- Underground Temperatures, Especially in Coal Mines By H Hoefer. T I M. E., vol. 27, p. 351. 22 pages I
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- TEMPERATURES AT POINTS IN DEEP QUARTZ MINE, BENDIGO, AUSTRALIA. E. & M. J., vol. 78, p. 618. Note
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- Temperatures from Deep Well in Germany. By F. J. H Merrill E. & M J, vol. 81, p. 278 1 column.
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- TEMPERATURES IN THE RAND MINES. Gold Mines of the Rand, pp. 103, 104. Tables.
- TEMPERATURES IN DEEP MINES. Min. & Sci. Press, vol. 68, p. 198. 1½ columns.
- HEAT IN THE EARTH'S CRUST. Min. & Sci. Press, vol. 72, p. 502. 2 columns.
- Temperatures below Ground. Min. & Sci. Press, vol. 75, p. 363. ½ column.
- HEAT IN ORE MINES. Min. & Sci. Press, vol. 79, p. 286. 1 column.
- TEMPERATURE OF DEEP MINES. Min. & Sci. Press, vol 89, p. 374. ½ column.
- Earth Temperatures in Mines. Min. & Sci Press, vol. 83, p. 260. 1 column.
- THE TEMPERATURES WHICH MAN CAN ENDURE E. & M. J., vol. 16, p. 116. 1½ columns.
- Subterranean Temperatures at Wheeling, West Virginia, and Pittsburg, Pennsylvania. By W. Hallock. Sch Mines Quart., vol. 18, p 148. 6 pages. I.
- ROCK TEMPERATURES IN DEEP MINES IN BELGIUM. Sch. Mines Quart., vol. 80, p. 252.
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- THE TEMPERATURE OF WATER AT VARIOUS DEPTHS. E & M J., vol. 37, p 311, ½ column; p. 405, note.
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- THE HEAT OF THE COMSTOCK MINES. E & M. J., vol. 26, p. 456. 3 columns.

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- CAUSE OF HEAT IN MINES. T. A. I. M E., vol. 8, p. 325.
- THE HEAT OF THE COMSTOCK LODE. By J. A. Church. T. A. I. M. E., vol. 8, p. 324.
- Source of Heat in Mines. T. A. I. M. E., vol. 7, p. 52.
- HOT AND COLD BELTS IN MINES. T. A. I M. E., vol. 7, p. 49.
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- PERMANENT ICE IN A MINE IN THE ROCKY MOUNTAINS. E. & M. J, vol. 18, p. 358. ½ column.
- ICE IN MINES Min. & Sci. Press, vol. 33, p 208. ½ column.
- INCREASE OF TEMPERATURE IN DEPTH.

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- VARIATION OF TEMPERATURE WITH DEPTH IN ROCKS. T. N. S. I. M. & M. E., vol. 8, p. 68. Table.
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Abandoned Mines and Districts

- ABANDONED MINES. E. & M. J., vol. 9, p. 297. 1 column.
- ABANDONED MINING DISTRICTS. Min. & Sci. Press, vol. 43, p. 303. ½ column.
- THE DEAD MINING TOWNS AND WHAT THEY TEACH. Min. & Sci. Press, vol. 38, p. 121. 1 column.
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- HYDRAULIC MINING: Working Abandoned Claims Min. & Sci. Press, vol. 27, p 56. 1½ columns
- THE MEADOW LAKE MINES: A Deserted City Min. & Sci Press, vol 26, p 394 2½ columns.
- FAILURES IN "BOOMED" TOWNS By H. S Fleming E & M J, vol 53, p 207, 2 columns; p. 251, 2½ columns; p 330, 2½ columns, p 352, 2½ columns; p 381, ¾ column; p. 397, 1½ columns, p 429, 1½ columns, p. 469, 1 column; p. 474, 3½ columns
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Salting of Mines

- MINING REPORTS AND MINE SALTING. By W. McDermott. T I. M. & M, vol. 3, pt. 2, pp. 108, 131.
- Salting Mines: Miners' Tricks and How to Avoid Them. By A. Lakes. Coll. Engr. & Met Miner, vol. 14, p. 136. 3 columns.

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- Sanding Samples: Cheating Mine Operators. Min. & Sci. Press, vol. 62, p. 306. † column.
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- PRACTICES THAT CALL FOR CORRECTION Salting, etc. Min. & Sci. Press, vol. 40, p 312. * column.
- How They Salted that Mine. Min. & Sci. Press, vol. 37, p. 342. 1 column.
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- More Salted Mines. Min. & Sci. Press, vol. 28, p 6 7 column.
- SALTED MINES. Min & Sci. Press, vol 28, p 42 ³/₂ column.
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- How an Infant Salted Vancouver.

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MINE AND MILL MACHINERY

Mining Machinery: Its Manufacture and Use

- Power Consumption of Mining Machines. By Huber. Gluckauf, Oct. 1, 1904.
 - Min Mag, Oct.-Nov., 1904, p. 298. 11 columns.
- ECONOMY IN THE MANUFACTURE OF MINING MACHINERY. By C. H. Fitch. T. L. S. M. I., vol. 6, p. 44. 8 pages.
- ECONOMY IN MANUFACTURE OF MINING MACHINERY. By C. H. Fitch M. & M., vol. 21, p. 85. 1½ columns.

- Notes on Machinery Constituting A Mining Plant. By A. C. Garde. J. C. M. I., vol. 6, p. 301. 6 pages.
- THINGS THAT ARE MADE TO SELL AND TO USE. E. & M. J., vol. 80, p. 165. 1 column.
- THE DEVELOPMENT OF MACHINERY. E. & M. J., vol. 79, p. 847. 2 columns.
- A Few Notes on Material Used in Mining Machinery. By H. W. De Courtney. T. F. C. M. I., vol. 2, p. 118. 8 pages. I.
- THE SAM BROWN MINING MACHINE.
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- CARE OF MINING MACHINERY: Hose for Steam or Air, Methods of Construction and Means Adopted for Protecting it from Injury. By E B. Wilson. M. & M, Feb, 1904, p 323, 2½ columns, vol 24, p 187, 2½ columns, I.; p 140, 3½ columns, I.
- CARE OF MINING MACHINERY. By E. B. Wilson. M. & M., vol. 24, p 31. 3 columns.
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- Wear of Mill Machinery. M. & M., vol. 26, p. 495. Table.
- THE MAN-ENGINE AND MINE LADDERS. E. & M. J., vol. 30, p. 189. † column.

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- OLD ROMAN MINING MACHINERY Water Wheel in Rio Tinto Mines. By A. R. Ledoux. E. & M. J., vol. 44, p. 484. ½ column. I.
- Tools of the Philippine Miners Crude Devices Made by Native Engineers and Mechanics, which have Served a Useful Purpose. By a Prospector. M & M., Aug., 1901, p 28. 1½ columns
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- AMERICAN MINING MACHINERY IN MEXICO AND CENTRAL AMERICA. By F. H McDowell. T. A. I. M. E, vol 13, p 408.
- A New Channeling Machine. E & M. J, vol. 59, p. 534. 1½ columns. I.
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- A New Quarry Machine. M. & M, Nov, 1901, p. 172
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- COAL MINING TOOLS AND METHODS. By H M Chance. 2d Geol. Sur of Pa, AC, p 169. 10 pages I.
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Pulleys and Belts

- CALCULATIONS OF DIAMETERS AND REVOLUTIONS OF PULLEYS. Min. & Sci. Press, vol. 82, p. 281. Note.
- LAYING OUT CONE-PULLEYS. By J. Rose. E. & M. J., vol. 26, p. 221. 1 column. I.
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- NOTES ON RUBBER AND THE WEIGHT OF RUBBER BELTING. E. & M. J., vol 71, p 302 2 column.
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- HINTS ON LEATHER BELTING. By W II Kritzer Min & Sci Press, vol 86, p 261 3\frac{1}{3} columns. I.
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- CRUSHING FOR CONCENTRATING WORK: Types of Machines — the Blake. M. & M., Dec., 1904, p 232.
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- MACHINERY FOR BREAKING COAL. T. A. I M E, vol 19, p 414
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Stamp-Mill Practice

- Origin of the California Stamp. By C. P. Stanford Min. & Sci. Press, vol 67, p 262 2\frac{2}{3} columns
- BATTERY FRAMES. Min. & Sci. Press, vol 70, p. 376 2 columns. I.
- A CANTILEVER BATTERY FRAME By I. C Boss. E. & M. J., vol. 77, p. 404. 3 columns. I.
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- DUTY OF STAMPS ON RAND AND ELSE-WHERE. E. & M. J., vol. 78, p. 141. Table.
- A BUILT-UP WOODEN-FRAMED STAMP BATTERY. E. & M. J., vol. 61, p. 541. d column. I.
- THE "A" BATTERY FRAME FOR STAMP MILLS. By R. W. Barrell M. & M., vol. 20, p. 181. 21 columns. I.
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- McFarland's Prospecting Stamp.
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- HAND-POWER PROSPECTING STAMP MILL. Min. & Sci. Press, vol. 38, p. 217. ½ column. I.

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- An Improved (Stamp) Coin. Min. & Sci. Press, vol. 40, p. 9. ½ column. I.
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- BATTERY FRAMES. Min & Sci Press, vol 75, p 345. 3 columns I.
- A High-Speed Battery. Min. & Sci. Press, vol 75, p. 92.
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- THE SHARPNECK STAMP. E. & M. J., vol 37, p 445. 1 column. I
- COMPARATIVE TABLE OF STAMP MILLS, GIVING GENERAL CHARACTERISTICS OF SIX OF THE PRINCIPAL GOLD-MINING CENTERS T. F. I. M. E., vol 7, p 108. Table.
- GRAVITATION STAMP MILLS FOR QUARTZ CRUSHING. By D B Morison Engineering, London, vol. 63, p 624, 4 columns, I, p 661, 5½ columns, I, p. 791, 1 column
- A DEVELOPMENT IN GRAVITATION STAMP MILLS. By D. B. Morison and D. A. Bremner. T. I. M. & M., vol. 8, p 156.
- A Bodie Gold Stamp Mill. By R. G. Brown. E. & M. J., vol. 61, p. 615. 3½ columns. I.
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- THE PACHUCA STAMP-BATTERY AND ITS PREDECESSORS. By M P. Boss. T. A. I. M. E., vol. 32, p. 244.

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- Notes on Stamp-Battery Construction. By C. G. W. Lock. T. I. M. & M, vol. 9, p. 310. 2½ pages. I.
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- Some Accessory Stamp-Mill Appliances. By G. O. Smart. E. & M. J., vol. 83, p. 471. 21 columns. I.
- THE SIZE OF A STAMP-SHOE. Min. & Sci. Press, vol. 93, p. 50. 7 column.
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- Some Varieties of Wood Battery Guides. By W. J. Sharwood. Min. & Sci. Press, vol. 88, p. 242. 3½ columns. I.
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- CURVE OF QUARTZ-MILL CAMS. Min. & Sci. Press, vol. 47, p. 168. ½ column.

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Fine Crushing by Mills: Ball, Tube and Miscellaneous Types

- Fine Grinding in 1906 E & M. J., vol 83, p. 17 2½ columns
- Note on An Improved Native Gold-Mill. By E Halse. T I. M. & M, vol 9, p. 174 3 pages
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- THE ALDEN ORE CRUSHER AND PUL-VERIZER. E. & M. J., vol. 24, p. 419. 1 column. I.
- THE MOREY PULVERIZER FOR DRY ORES. E. & M. J., vol. 35, p. 191, note, I.; p. 209, ½ column, I.
- THE LUCOP AND COOK CENTRIFUGAL PULVERIZER. E. & M. J., vol. 34, p. 147. 1 column. I.
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- FINE GRINDING IN WHEELER PANS. P. C M. & M. Soc. S. A., vol. 5, p. 280. 2 columns. I.
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- THE FERRARIS BALL-MILL. By W.R. Ingalls. E. & M. J., vol. 76, p. 811. 3\frac{3}{4} columns. I.
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- FINE GRINDING OF ORE BY TUBE-MILLS, AND CYANIDING AT EL ORO, MEXICO By G Caetani and E. Burt T A. I. M. E., vol. 37, p 3 51 pages I.
- GRINDING IN TUBE MILLS. By E G
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- THE ARRASTRA AND ITS USE. E. & M. J., vol. 68, p. 760. 2 columns.

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- HISTORY OF SOLAR SURVEYING INSTRU-MENTS. By J. B. Davis. T. A. I. M. E., vol. 30, p. 803.
- Mine-Surveying Instruments. By D. D. Scott. T. I. M E., vol. 28, p. 624. 60 pages. I.
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- THE ACTION OF ELECTRIC CURRENTS ON MINE-SURVEYING INSTRUMENTS.

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Shaft-Plumbing

- GRAVITATIONAL OR MECHANICAL (Shaft) PLUMBING. T. I. M. E., vol. 28, p 655. 18 pages. I.
- DIFFICULTIES OF SURVEYING DEEP SHAFTS. E. & M. J., vol. 83, p. 323. 1½ columns.

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- EARLY EXPERIENCES IN TRANSPORTA-TION. By A. Snyder. P E. Soc. W. Pa, vol. 18, p. 570. 3½ pages.
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Wagon Roads, Wagons and Traction Engines

- REPORT OF COMMITTEE ON ROADS. P. E. Soc. W. Pa., vol. 13, p. 364, 20 pages, I.; p. 431, 14 pages, I; p. 530, 8 pages, I.; vol. 14, p. 28, 9 pages.
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- Road Building in the Far North. E. & M. J., vol. 78, p. 869. 5½ columns. I.
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Tunneling Machines

- THE PRICE ELECTRICAL EXCAVATOR. T I M E., vol 26, p. 405. 2 pages I.
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- THE INGERSOLL-SERGEANT HEADING-MACHINES. T. I. M. E., vol. 31, p. 365. 8 pages. I.
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Subways

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MINE VENTILATION

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- A New Diagram of the Work of Mine-Ventilation. By H W G. Halbaum. T I.M E, vol. 27, p 484, 9 pages; p. 509, 8 pages.
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- Ventilation. By C. Fergie. J. M Soc N S., vol. 7, p. 88. 7 pages.
- THE VENTILATION OF MINES Min. & Sci Press, vol 91, p. 124, 2 columns; p 138, 1½ columns, p 156, 2½ columns; p 175, 2½ columns; p 175, 2½ columns; p 191, ½ column; p. 209, 1½ columns; p 245, 1½ columns; p. 262, 2 columns.
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- THE VENTILATION OF MINES By M. G. Hanarte Coll. Engr & Met. Miner, vol 14, p 285. 7½ columns, I.
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- SYSTEM OF VENTILATION AND HAULAGE AT BANNING NO 2 MINE. E. & M. J., vol 81, p. 324. I.
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- Ventilating Fans for Mines. By J T Beard. Coll Engr & Met. Miner, vol. 14, p. 257. 5 columns I.
- Notes on Fans By W H Booth.

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- A Colliery Fan Casing E & M. J, vol 78, p 994 ½ column. I.
- VENTILATION AND VENTILATORS 2d. Geol. Survey Pa, AC, p 307. 31 pages.
- FAN CAPACITY E & M J, vol 80, p 108 1 column
- THE WALKER ANTI-VIBRATION SHUTTER OR SLIDE FOR GUIBAL AND OTHER ENCLOSED FANS By E R Walker T A I M E, vol 19, p 37
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- VENTILATING FAN AT XHORRE COL-LIERY, BELGIUM: A Rateau Fan. E & M J, vol 67, p 676 Note.
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- WHY TWO FANS ARE NOT TWICE AS EFFECTIVE AS ONE M & M, vol. 19, p. 573. 1 column.
- ON A DUPLEX ARRANGEMENT OF CENTRIFUGAL VENTILATING MA-CHINES By W Cochrane T F. I. M. E , vol 2, p 483. 6 pages I.
- An Imprompty Ventilating Fan.
 By O E Stone M & M, vol 19,
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- THE PATTON FAN The Methods Used in Calculating Its Proportions, and Some Particulars of Tests of Its Efficiency By E Brackett M & M, vol 19, p. 370 5 columns I.
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- GENERAL CONSIDERATIONS REGARDING
 THE CONSTRUCTION, DIMENSIONS,
 AND WORKING OF VENTILATING
 FANS T F. I M E, vol 1, p 69.
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- Notes on the "Medium" Fan. By A Lupton T F I M E, vol 1, p 65 14 pages I.
- CORLISS-ENGINED FAN AT SEGHILL COLLIERY By C C Leach T F I. M E, vol 6, p 48 10 pages. I.
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- DETAILS OF A 35-FOOT FAN AT THE HOLLENBACK SHAFT Rept. Inspr Mines Pa, 1880, p. 100 I
- DETAILS OF CONSTRUCTION OF 17-FOOT FAN, BALTIMORE TUNNEL MINES. Rept Inspr. Mines Pa., 1881, p. 150
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- THE PNEUMATOPHOR IN GERMAN COAL MINES E & M. J., vol. 64, p 578. Note.
- THE RELATIVE ECONOMY OF SOME OF THE MACHINES USED IN THE VENTILATION OF MINES By R P. Rothwell E & M J, vol 5, p 322, 1 column, p. 354, 1½ columns, p 370, 1½ columns.
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- FAN-BLOWER DESIGN E & M J, vol. 82, p 795 1 decolumns.
- THE STURTEVANT ROTARY BLOWER. E & M J, vol. 81, p 365. 4 columns. I.
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- UNDERGROUND FANS By R. V Norris, M & M, vol 27, p 216 1 column. By F C Keighley M & M, vol. 27, p 216, 1½ columns; p. 261, ½ column.
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- UNDERGROUND FANS AS MAIN VENTILATORS. By A. J. Tonge. T. I. M. E, vol. 31, p. 207, 14 pages, I.; p. 264, 10 pages.
- Underground Fans as a Method of Ventilation By F. W. Parsons. E & M J., vol. 82, p. 16. 1½ columns.
- Advantages of Underground Fans. E. & M. J., vol 81, p 766. Note
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- CENTRIFUGAL VENTILATORS By R
 V Norris T A I. M. E, vol. 20,
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- MECHANICAL DRAFT AND ITS ADVANTAGES M. & M, Dec., 1901, p 219.

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- MECHANICAL DRAFT. By F. R. Still J W. Soc. E., vol. 7, p. 271. 23 pages I.
- Wind-Sail: Size of, for Proper Ventilation Min & Sci. Press, vol 89, p 20 Note

Effect of Size and Shape of Air-Way on Ventilation, etc.

- Scheme of Ventilating Advanced Workings, Entries, etc. E & M. J, vol. 82, p. 403 Note.
- Tables of Volumes through Airways Cubic Feet per Minute E. & M. J., vol. 84, p. 82 Table
- Pratt Mines: Mouth of Slope, Showing Method of Connecting Air-Course with Surface. T A I. M E, vol. 19, p 303
- THE FRICTION OF AIR CURRENTS IN MINES Mine Resistance M & M., May, 1901, p 475 1 column
- The Friction of, or Resistance to, Air-Currents in Mines By D. Murgue T F I M E, vol 6, p 135, 42 pages, I.; vol 7, p. 211, 11 pages, I
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- THE EFFECT OF AN OBSTRUCTION IN THE AIR-WAY OF A MINE. By T L. Elwen T F I. M. E., vol. 9, p. 36. 5 pages I
- Size and Shape of Air-ways M. & M, vol. 21, p. 185. 2 columns. I.
- Ventilation: Size of Up-cast Shaft. M. & M., June, 1902, p. 523.
- THE ADAPTATION OF COLLIERY WIND-ING SHAFTS FOR MECHANICAL VEN-TILATION. By H. Glepin. E & M. J., vol 30, p. 332. \(\frac{2}{3}\) column.
- Air-Crossings and Stoppings. Coll.
 Working & Management, p. 143.
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- AIR-Crossings or Bridges M. & M., vol 19, p 303. 2 columns. I.
- How Should Air-Bridges be Made? M & M, vol 19, p 366, 13 columns; vol 21, p 235, 2 columns.
- METHOD OF FORMING OVER-CAST IN THICK COAL SEAMS E & M. J., vol 84, p 317 Note
- DRILLING AIR-HOLES IN GERMAN COAL MINES E & M J, vol 32, p. 239. Note
- DRAINING GAS FROM GOB WORKINGS BY BORE HOLES, WHERE IT IS PRAC-TICABLE The Relative Advantages of Force and Exhaust Fans for This Purpose By C Connor M & M, vol 20, p 489, vol. 21, p. 61, 81 columns
- Air-Holes for Connecting Advance Faces. E. & M J, vol 82, p. 977. Note.

Quantity of Air Needed in Mines

QUANTITY OF AIR CONSUMED BY:
Workman with lamp, 240 cubic
yards air in 24 hours; Horse, 850
cubic yards air in 24 hours; 1 Pound
Gunpowder, 100 cubic yards air;
1 Pound Dynamite, 150 cubic yards
air. Tunneling, C. Prelini, p. 295.
Table.

- AMOUNT OF AIR REQUIRED FOR VEN-TILATION. M. & M., vol. 27, p. 158. 1 column +.
- QUANTITY OF AIR NECESSARY FOR VEN-TILATING A MINE. M. & M., vol. 27, p. 69 1 column
- QUANTITY OF AIR NEEDED FOR VEN-TILATION. M. & M., vol. 21, p. 89. 1 column.
- ADEQUATE VENTILATION: The Amount of Air Needed for Men, Horses, and Lights under Various Conditions By E. W Thirkell M & M, vol 18, p 245 4½ columns.
- WHEN IS A MINE EFFICIENTLY VENTI-LATED? M & M, vol 19, p 526 11 columns

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- FURNACE VS FAN VENTILATION By J. Williamson T N S I M & M. E., vol 2, p 168. 8 pages
- Furnace vs Fan Ventilation By T. E Storey. T. N S I M & M. E., vol 2, p. 190. 5 pages I
- Dodge Shaft Furnace, Bellevue, Pennsylvania, Producing over 140,000 Cubic Feet of Air Per Minute Rept Inspr Mines, Pa, 1879, p. 241. I
- CHEAP VENTILATION IN SMALL MINES: Furnace. Min & Sci Press, vol 78, p. 294 1 column I
- VENTILATING FURNACES P C M, vol. 4, p 281 3 pages I.
- Ventilation of Collieries. Furnaces Setting Timber on Fire Am Jour. Min, vol 4, p 273 ½ column
- VENTILATING FURNACE AT WALTON'S SECOND POOL MINES. Coll. Engr., vol. 8, p. 99. I
- VENTILATION: Size of Furnace Required M & M, Mar, 1902, p 380.

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- DETERMINATION OF HEATING SURFACE REQUIRED IN VENTILATING FLUES. By W. P Trowbridge Sch Mines Quart, vol 3, p 171 12 pages I.
- MINE VENTILATION, Relative Merits of the Furnace and Fan as Ventilating Agents in Mines. By H. W Halbaum M & M, vol. 18, p 203 7 columns.
- ON THE RELATIVE ECONOMY OF VEN-TILATION BY HEATED CHIMNEYS AND VENTILATION BY FANS By W P Trowbridge Sch Mines Quart, vol 7, p 347 12 pages

Stoppings, Doors, and Regulators in Mines

- Mine Ventilation A Study of the Equivalent Orifice Method as Applied to the Measurement of the Yield of Fans By J T Beard Coll Engr & Met Miner, vol 17, p 73 6½ columns I
- THEORY OF THE EQUIVALENT ORIFICE
 TREATED GRAPHICALLY By H W
 Halbaum T I M E, vol 20,
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 17 pages, vol 22, p 509, 8 pages
- Construction of Air-Stoppings. M & M, Mar, 1904, p 392
- Underground Stoppings Coll Engr & Met. Miner, vol 14, p 253 I
- STOPPINGS ON UNDERGROUND ROADS By E B Wain T F. I. M E, vol 6, p 572. 5 pages I.
- REGULATORS By S M Roberts.
 Coll. Engr, vol 12, p 267 1½ columns I.
- Valve Door for Mine Stoppings M & M, vol 27, p 117 { column
- Doors in Mines: Their Effect on the Air Currents. By J Blick Coll Engr. & Met. Miner, vol. 16, p 279 2½ columns I
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- DIRECT MEASUREMENT OF THE VELO-CITY OF GAS-CURRENTS WITH PITOT TUBES. T. I. M E., vol. 31, p. 708. 14 pages.
- THE LEE ALARM WATER-GAUGE. T. F.
 I M E, vol 3, p 128 1 page. I.
 THE LAUDER ANEMOMETER T. I. M.
- E, vol 31, p 183 1½ pages. I.
- RECORDING VOLUMETRIC ANEMOMETER.

 By D Murgue. M & M, vol. 20,
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- THE MURGUE RECORDING VOLUMETRIC
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- A WATER-MANOMETER AND ANEMOMETER By J M Silliman. T. A I. M E, vol 17, p 66
- THE KONIG DIFFERENTIAL WATER-GAUGE By M W Brown T. F. I M E, vol 3, p 452 3 pages I.
- AN IMPROVED WATER-GAUGE By A. H Stokes T. F I M E, vol 5, p 474 3 pages I
- False Water-Gauge Readings M. & M, vol 21, p 136 2\frac{3}{4} columns I How to Read Water Gauges M. &
- M , Sept , 1901, p. 85 -2 columns Pressure of Air at Different
- Different Different Different Different Rept of Inspr of Mines Pa, 1875, p 60 Table
- THE ESTIMATION OF THE ACTUAL EFFECTIVE PRESSURE OR WATER-GAUGE IN THE VENTILATION OF MINES. By T A Southern T. F I. M E, vol 4, p 461 13 pages
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- THE RELATION BETWEEN POWER,
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- EXPERIMENTAL INVESTIGATIONS ON THE "LOSS OF HEAD" OF AIR-CURRENTS IN UNDERGROUND WORKINGS By D. Murgue. T. A. I. M. E, vol 23, p 63.
- THE LOSS OF HEAD OF AIR-CURRENTS
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 D Murgue E & M J, vol 56,
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- THE FLOW OF AIR AND OTHER GASES.

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- Air Columns in Mine Ventilation.

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- Underground Velocities in Connection with Ventilation and Illumination By A. R Sawyer. T N S I M. & M E, vol 7, p 263 7 pages
- TESTING THE VELOCITY OF AIR CURRENTS BY BURNING POWDER IN PENNSYLVANIA MINES Rept Inspr. Mines Pa, 1878, p 245. ½ page

Tests on Fans

- The Capell Fan Some Results Obtained at a Test Conducted by the Berwind-White Coal Mining Company M. & M, vol. 18, p. 3165 columns. I.
- Tests on a Mine-Fan. By J. B. Thompson T I M. E., vol. 32, p 295 5 pages. I
- FOUR TESTS OF A CAPELL MINE VEN-TILATING FAN By J B Thompson. E & M J, vol 83, p. 1008. 4 columns I
- TESTING BLOWERS E & M. J., vol. 82, p 1068. 1½ columns. I.
- TEST OF A KUDERER FAN. M. & M., vol. 26, p 388. Table
- FAN TESTS By W H. Booth Coll. Engr, vol 11, p 185. 1½ columns. I.
- CAPELL FAN TEST. M. & M., Sept., 1901, p 72. ½ column.
- RESULTS OF A VENTILATING FAN TEST.

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